GROUP 9 HERBICIDE

### NCS Sicario II 540 Herbicide

### SOLUTION

## COMMERCIAL (AGRICULTURAL)

### **CAUTION**



#### **EYE AND SKIN IRRITANT**

#### **REGISTRATION NO. 35088 PEST CONTROL PRODUCTS ACT**

**ACTIVE INGREDIENT:** Glyphosate, 540 g/L, present as potassium salt.

Herbicide for non-selective weed control

READ THE LABEL AND ATTACHED BROCHURE BEFORE USING.

**NET CONTENTS: 6.7 LITRES to Bulk** 

Northern Cropscience Inc.
Suite 300, 336 Sheppard Avenue East
North York, Ontario
M2N 3B4
1-437-880-8283

#### **PRECAUTIONS**

KEEP OUT OF REACH OF CHILDREN. HARMFUL IF SWALLOWED. HARMFUL IF INHALED. May irritate the eyes and the skin. Avoid contact with eyes, skin or clothing. Avoid inhaling spray mist.

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

**DO NOT** enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours.

**DO NOT** apply using handheld mist blower/airblast or handheld fogging equipment.

#### **FIRST AID**

If swallowed: Call a poison control centre or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person. If 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.

**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.

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

For first aid instructions or the toxicological information essential for treatment, obtain and read the approved label from the registrant or phone the number indicated on this container.

#### **TOXICOLOGICAL INFORMATION**

Treat symptomatically. This product contains a petroleum distillate. Vomiting may cause aspiration pneumonia.

#### **ENVIRONMENTAL PRECAUTIONS**

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

#### PHYSICAL OR CHEMICAL HAZARDS

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

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

For additional information on this or other Northern Cropscience Inc. agricultural products, call 1-437-880-8283

#### STORAGE

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

#### DISPOSAL

#### **RECYCLABLE CONTAINERS:**

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

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

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

#### **RETURNABLE CONTAINERS:**

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

#### **REFILLABLE CONTAINERS:**

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

#### UNUSED, UNWANTED PRODUCT:

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

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

ALWAYS READ AND FOLLOW PESTICIDE LABEL DIRECTIONS.
All products listed are trademarks or registered trademarks of their respective companies

GROUP 9 HERBICIDE

#### NCS Sicario II 540 Herbicide

#### SOLUTION

## COMMERCIAL (AGRICULTURAL)

#### **CAUTION**



#### **POISON**

#### **EYE AND SKIN IRRITANT**

### **REGISTRATION NO. 35088 PEST CONTROL PRODUCTS ACT**

**ACTIVE INGREDIENT:** Glyphosate, 540 g/L, present as potassium salt.

Herbicide for non-selective weed control

### READ THE LABEL AND ATTACHED BROCHURE BEFORE USING.

NET CONTENTS: 6.7 LITRES to Bulk

Northern Cropscience Inc. Suite 300, 336 Sheppard Avenue East North York, Ontario, M2N 3B4 1-437-880-8283

## NCS Sicario II 540 Herbicide

#### PRODUCT DESCRIPTION

Herbicide for non-selective weed control in CROPLAND SYSTEMS.

#### **CROPLAND USES INCLUDE:**

In cropping systems before planting of all crops; in minimum tillage systems; post-emergent in TruFlex™ Roundup Ready® canola, Roundup Ready® 2 Yield soybeans, Roundup Ready® 2 Xtend™ soybeans, Roundup Ready® canola, soybean, corn (including MON 87419 field corn) and sugar beet; preharvest applications in wheat, barley, oats, canola (rapeseed), flax (including low linolenic acid varieties), peas, lentils, dry beans, soybeans, chickpeas, dried lupins, dried fava beans, canary seed and forages; in pasture renovation; in forage, legume and grass establishments; in tree crops including apple, pear, cherry, plum, peach, nectarines, 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.

Not for relabelling or repackaging.

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

#### INFORMATION

For additional information on this or other Northern Cropscience Inc. agricultural products, call: 1-437-880-8283

#### **PRECAUTIONS**

KEEP OUT OF REACH OF CHILDREN. HARMFUL IF SWALLOWED. HARMFUL IF INHALED. May irritate the eyes and the skin. Avoid contact with eyes, skin or clothing. Avoid inhaling spray mist.

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

**DO NOT** enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours.

**DO NOT** apply using handheld mist blower/airblast or handheld fogging equipment.

#### **FIRST AID**

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

IF ON SKIN OR CLOTHING, take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control centre or doctor for treatment advice. IF SWALLOWED, Call a poison control centre or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person. IF INHALED, move the person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control centre or doctor for further treatment advice.

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

For first aid instructions or the toxicological information essential for treatment, obtain and read the approved label from the registrant or phone the number indicated on this container.

#### **TOXICOLOGICAL INFORMATION**

Treat symptomatically. This product contains a petroleum distillate. Vomiting may cause aspiration pneumonia.

#### **ENVIRONMENTAL PRECAUTIONS**

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

#### PHYSICAL OR CHEMICAL HAZARDS

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

#### STORAGE

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

#### **DISPOSAL**

#### RECYCLABLE CONTAINERS:

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

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- 2. Make the empty, rinsed container unsuitable for further use.

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#### **RETURNABLE CONTAINERS:**

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#### **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.

#### UNUSED, UNWANTED PRODUCT:

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

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

# DIRECTIONS FOR USE GENERAL INFORMATION

**DO NOT** apply by air, unless otherwise specified in the crop-specific use directions.

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

Observe spray buffer zones specified in the "Spray Buffer Zones" section.

NCS Sicario II 540 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 Weed Control" and "Perennial Weed Control" sections 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.

For best results, spray coverage should be uniform and complete. Do not spray weed foliage to the point of run-off.

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

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

#### RESISTANCE-MANAGEMENT RECOMMENDATIONS

For resistance management, NCS Sicario II 540 Herbicide is a Group 9 herbicide. Any weed population may contain or develop plants naturally resistant to NCS Sicario II 540 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 NCS Sicario II 540 Herbicide or other Group 9 herbicides within a growing season (sequence) or among growing seasons with different herbicide groups that control the same weeds in a field.
- Use tank mixtures with herbicides from a different group when such use is permitted. To delay resistance, the less resistance-prone partner should control the target weed(s) as effectively as the more resistance-prone partner.

- Herbicide use should be based on an integrated weed management program that includes scouting, historical information related to herbicide use and crop rotation, and considers tillage (or other mechanical control methods), cultural (for example, higher crop seeding rates; precision fertilizer application method and timing to favour the crop and not the weeds), biological (weed-competitive crops or varieties) and other management practices.
- Monitor weed populations after herbicide application for signs of resistance development (for example, only one weed species on the herbicide label not controlled). If resistance is suspected, prevent weed seed production in the affected area if possible by an alternative herbicide from a different group. Prevent movement of resistant weed seeds to other fields by cleaning harvesting and tillage equipment when moving between fields, and planting clean seed.
- Have suspected resistant weed seeds tested by a qualified laboratory to confirm resistance and identify alternative herbicide options.
- Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or integrated weed-management recommendations for specific crops and weed biotypes.
- For further information or to report suspected resistance, contact Northern Cropscience Inc. at 1-437-880-8283.

## MIXING AND APPLICATION 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 apply 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.

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

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

**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.

## MIXING AND APPLICATION EQUIPMENT MIXING WITH WATER

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 "Annual Weed Control" and "Perennial Weed Control" sections, 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.

#### TANK MIXING PROCEDURE

The following steps should be followed when adding tank mix partners, using a herbicide loading system or adding product directly into the tank:

- 1. Fill spray tank 3/4 full of water.
- 2. Start agitation and run for entire mixing and spraying operation.
- 3. Add required amount of the tank mix partner.
- 4. Flush herbicide loading tank and herbicide containers with water.
- 5. If using a herbicide loading system ensure that the loading tank and lines to the pump are empty and flushed out with water before adding tank mix partner.
- 6. Add required amount of NCS Sicario II 540 Herbicide.
- 7. Flush herbicide loading tank and herbicide containers with water.
- 8. If using a herbicide loading system ensure that the loading tank and lines to the pump are flushed with water and empty before starting spray operation.

Always start and end the mixing and spraying operation with a clean system.

#### **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 the "Annual Weed Control" and "Perennial Weed Control" section 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 the "Annual Weed Control" and "Perennial Weed Control" section 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 "Weeds Controlled" section of this label using knapsack sprayers or high volume spraying equipment utilizing handguns or other suitable nozzle arrangements – Unless otherwise specified, make a 0.67 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 soybeans and dry beans, orchards, vineyards, cranberries, strawberries. For information regarding use of this product with selective equipment, refer to the "**Selective Equipment**" section.

#### **AERIAL EQUIPMENT**

Aerial application can only be used for weed control in preharvest situations. Refer to the "**Spray Buffer Zones**" and "**Preharvest Aerial Application**" sections 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 electronic positioning systems (GPS). The use of spotter planes is recommended.

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 IS 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 spray 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.

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

#### **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 manufacturer at 1-437-880-8283 or obtain technical advice from the distributor or your provincial agricultural representative.

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

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

#### **SPRAY BUFFER ZONES**

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

<u>Airblast or mist blower application</u>: **DO NOT** apply during periods of dead calm. Avoid application of this product when winds are gusty. **DO NOT** direct spray above plants to be treated. Turn off outward pointing nozzles at row ends and outer rows. **DO NOT** apply when wind speed is greater than 16 km/h at the application site as measured outside of the treatment area on the upwind side.

<u>Aerial application</u>: **DO NOT** apply during periods of dead calm. Avoid application of this product when winds are gusty. **DO NOT** apply when wind speed is greater than 16 km/h at flying height at the site of application. **DO NOT** apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE S572.1) coarse classification. Reduce drift caused by turbulent

wingtip vortices. Nozzle distribution along the spray boom length **MUST NOT** exceed 65% of the wing- or rotorspan.

## **Spray Buffer zones:**

Use of the following spray methods or equipment **DO NOT** require a spray buffer zone: handheld or backpack sprayer and spot treatment, inter-row hooded sprayer, low-clearance hooded or shielded sprayers that ensure spray drift does not come in contact with orchard crop fruit or foliage.

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

A and a ultimate a contained	Maximum number	Spray Buffer Zones (metres) Required for the Protection of:	
Agricultural systems	of applications	Aquatic habitats	Terrestrial habitats
Agricultural crop system and ground boom application method			
Pre-seeding applications for rye, cranberry, and all other crops. Established pasture and summer fallow. Ginseng new garden.	1	1	1
Ginseng - existing established garden, Canola – Roundup Ready hybrid for seed production	2	1	1
Filberts or hazelnut, sugar beets (glyphosate tolerant varieties)	4	1	1
Corn (glyphosate non-tolerant varieties including grain, silage and ornamental types), sugar beet (glyphosate non-tolerant varieties), strawberry, blueberry highbush and lowbush, walnut, chestnut, Japanese heartnut	2	1	2

A grioultural aveteme	Maximum number	Spray Buffer Zones (metres) Required for the Protection of:		
Agricultural systems	of applications	Aquatic habitats	Terrestrial habitats	
Wheat, barley, oats, soybean (glyphosate non-tolerant varieties), corn-sweet (glyphosate tolerant varieties), canola (glyphosate nontolerant varieties), peas, dry beans, flax (including low linoleic acid varieties), lentils, chickpea, lupin (dried), fava bean (dried), mustard (yellow/white, brown, oriental), pearl millet, sorghum (grain) (not for use as a forage crop), asparagus, corn (glyphosate tolerant varieties), forage grasses and legume including seed production	3	1	2	
Canola (glyphosate tolerant varieties), soybean (glyphosate tolerant varieties)	4	1	2	
Apple, apricot, cherry (sweet/sour), peaches, pears, plums, grapes	3	1	3	
Agricultural crop system and airblast application method (including mist blower)				
Pasture	1	20	30	

Agricultural systems		Maximum number of applications	Spray Buffer Zones (metres) Required for the Protection of:	
			Aquatic habitats	Terrestrial habitats
Agricultural crop				
system and aerial application method	Wing Type			
Rye, corn-sweet (glyphosate tolerant varieties), chickpea, lupin (dried), fava bean (dried), mustard (yellow/white, brown, oriental), pearl millet, sorghum (grain) (not for use as a forage crop), all other crops	Fixed and rotary wing	1	15	20

for preseeding				
treatments only Canola (glyphosate	Fixed and	3	20	40
tolerant varieties) Sugar beets	rotary wing Fixed wing	2	20	30
(glyphosate tolerant	Rotary wing		20	30
varieties)	Trotary wing	2	15	30
Wheat, barley, oats,	Fixed wing	2	20	35
soybean (glyphosate non-tolerant varieties), canola (glyphosate non-tolerant varieties), peas, dry beans, flax (including low linoleic acid varieties), lentils	Rotary wing	2	20	30
Forage grasses and legume including seed production	Fixed and rotary wing	1	20	40
Soybean (glyphosate	Fixed wing	3	20	45
tolerant varieties)	Rotary wing	3	20	40
Summer fallow	Fixed wing	1	20	45
Juniner ranow	Rotary wing	1	20	40
Corn (glyphosate	Fixed wing	2	20	50
tolerant varieties)	Rotary wing	2	20	45
Pasture	Fixed wing	1	30	70
i astuic	Rotary wing	1	30	55

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

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

#### **WEEDS CONTROLLED**

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

#### **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-grass** 

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

**Cow Cockle** 

Saponaria vaccaria

**Eastern Black Nightshade** 

Solanum ptycanthum

Fleabane (Canada)

Erigeron canadensis

Flixweed

Descurainia 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 artemisiifolia

Cocklebur

Xanthium strumarium

**Corn Spurry** 

Spergula arvensis

**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 theophrasti

**Volunteer Canola** 

(rapeseed)

Brassica spp.

**Volunteer Flax** 

Linum spp.

Wild Buckwheat

Polygonum convolvulus

Wild Mustard

Sinapis arvensis

**Wild Tomato** 

Solanum triflorum

#### PERENNIAL GRASSES/SEDGES

Blue Grass (Canada)

Poa compressa

Blue Grass (Kentucky)

Poa pratensis

**Brome Grass (smooth)** 

Bromus inermis

Quackgrass

Elymus repens

Cattail (common)

Typha latifolia

Wire-Stemmed Muhly

Muhlenbergia frondosa

Cottongrass

Eriophorum chamissonis

#### **Yellow Nutsedge**

Cyperus esculentus

#### Foxtail Barley

Hordeum jubatum

#### **Common Reed**

Phragmites australis

#### PERENNIAL BROADLEAVED WEEDS

Alfalfa **Hoary Cress** Thistle (Canada) Medicago spp. Cardaria draba Cirsium arvense

**Curled Dock Knotweed (Japanese)** Toad Flax

Polygonum cuspidatum Rumex crispus Linaria vulgaris

Dandelion Poison Ivy Wormwood (Absinth)

Rhus radicans Artemisia absinthium Taraxacum officinale

Purple Loosestrife Field Bindweed Milkweed (common) Convolvulus arvensis Lythrum salicaria Asclepias syriaca

Sow Thistle (perennial) **Hemp Dogbane** Sonchus arvensis Apocynum cannabinum

#### **WOODY BRUSH AND TREES**

Alder Hemlock Rhododendron (Canadian) Tsuga spp. Rhododendron canadense Alnus spp.

Maple Birch Sheep laurel

Acer spp. Kalmia angustifolia Betula spp. Mountain-fly honeysuckle **Broadleaved meadowsweet** Snowberry (Western)

Lonicera villosa Symphoricarpos occidentalis Spiraea latifolia

Cedar Pine Sweet fern

Thuja spp. Pinus spp. Comptonia peregrina

Cherry **Poplar** Willow

Prunus spp. Populus spp. Salix spp

**Douglas Fir** Raspberry/Salmonberry Withrod

Pseudotsuga spp. Rubus spp. Viburnum cassinoides

## **CROPLAND USES**

ALWAYS READ "PRECAUTIONS", "GENERAL INFORMATION" AND "MIXING AND APPLICATION" SECTIONS PRIOR TO SPECIFIC APPLICATION INFORMATION IN ANY **LABEL SECTION. DO NOT** apply by air.

#### ANNUAL WEED CONTROL

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

## ANNUAL WEED CONTROL WITH NCS SICARIO II 540 HERBICIDE

DO NOT apply by air.

RATE	GROWTH	WEEDS CONTROLLED	COMMENTS
(L/ha)	STAGE	NAC' 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(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-Roundup Ready® volunteer canola (rapeseed), wild mustard, lady's-thumb, stinkweed	<ul> <li>For wild oats apply at 1-3 leaf stage.</li> <li>Add 350 mL of a surfactant registered for use such as Agral® 90, Ag Surf®, or Companion™</li> <li>For heavy wild oat infestations use 0.67 L/ha rate.</li> </ul>
0.67	Weeds 8 cm to 15 cm in height	All annual grasses listed above.  All annual broadleaved weeds listed above plus flixweed* and kochia*	Add 350 mL of surfactant registered for use as listed above.      * Suppression only. Refer to higher rates of this table or tank mix table below: "Annual Weed Control with NCS Sicario II 540 Herbicide Tank Mixtures" 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.  All annual broadleaved weeds listed above plus cleavers, lamb's-quarters, redroot pigweed, hempnettle, flixweed, Russian thistle, volunteer flax, common ragweed*, Canada fleabane*, wild buckwheat**, narrowleaved hawk's beard***	No surfactant required.  For tank mix weed control options see the "Annual Weed Control with NCS Sicario II 540 Herbicide Tank Mixtures" section below.  * DO NOT use these rates on plants greater than 8 cm in height.  ** For 3-4 leaf stage use 1.27 L/ha rate.  *** For weeds 8 cm to 15 cm in height use 1.27 L/ha rate.
1.5	Weeds up to 15 cm in height	All annual grasses listed above plus crab grass and annual blue grass.  All annual broadleaved weeds listed above plus kochia, prickly lettuce, shepherd's purse, annual sow thistle, and narrowleaved vetch	For additional annual broadleaved weed control options, refer to the "Annual Weed Control with NCS Sicario II 540 Herbicide Tank Mixtures" section below.

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 the "Annual Weed Control with NCS Sicario II 540 Herbicide Tank
			Mixtures" section below.

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

# ANNUAL WEED CONTROL WITH NCS SICARIO II 540 HERBICIDE TANK MIXTURES FOR SUMMERFALLOW & MINIMUM TILLAGE SYSTEMS

TANK	RATE	WEEDS CONTROLLED♦	COMMENTS
MIXTURES	(L/ha)		(Apply in 50-100 L/ha water)
NCS Sicario II 540 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
+ XtendiMAX with VaporGrip Technology Herbicide	+ 0.40	Non-Roundup Ready® volunteer canola (rapeseed), wild mustard, flixweed*, lamb's-quarters, lady's thumb, stinkweed, kochia, Russian thistle, cow cockle, redroot pigweed**, wild buckwheat**	actively growing for best results.  Use higher rate if weeds are beyond 8 cm in height.  * NCS Sicario II 540 Herbicide applied at 0.67 L/ha rate only.  ** Suppression only. See other tank mixtures for control options.  Add 350 mL/ha of a surfactant listed in the "Surfactant"
			Information" section.
NCS Sicario II 540 Herbicide +	0.61 – 1.27 +	Volunteer cereals, wild oats, green foxtail, downy brome, Persian darnel  Non-Roundup Ready®	Use this tank mix prior to seeding in wheat, barley, rye, oats, field corn only (do not apply to sweet corn).
XtendiMAX with VaporGrip Technology Herbicide	0.42	volunteer canola (rapeseed), wild mustard, flixweed, lamb's-quarters, lady's thumb, stinkweed, kochia, Russian thistle, cow cockle, redroot pigweed, wild buckwheat*, smartweed	Certain broadleaved crops such as lentils, peas, canola and flax can be injured by a pre-seeding application and so should not be planted to a field receiving this treatment.  Annual grasses - apply any time between emergence and heading.

NCS Sicario II	0.5 —	Volunteer cereals, green	Weeds should be less than 15 cm tall and actively growing for best results.  The higher rate should be applied when weeds are under poor growing conditions, such as drought.  *1- to 4- leaf stage. This tank mix is registered only
+ Pardner® Herbicide	0.67 + 1.25	foxtail, volunteer canola (rapeseed), wild mustard, lady's-thumb, stinkweed, wild buckwheat*  Redroot pigweed**, kochia**, wild oats**	for use in summerfallow, and prior to wheat, oats and barley in minimum tillage systems. 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 NCS Sicario II 540 Herbicide at 0.67 L/ha rate only for wild buckwheat control.  ** 0.67 L/ha rate, suppression only. See other tank mixtures for control options.  Add 350 mL/ha of surfactant listed in the "Surfactant Information" section.
NCS Sicario II 540 Herbicide + 2,4-D <sup>A</sup>	0.83 – 1.27 + 0.6 – 0.9 <sup>4</sup> or 1.2 – 1.5 <sup>5</sup>	Volunteer cereals, wild oats, green foxtail, downy brome, giant foxtail, Persian darnel Volunteer canola, (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**, narrowleaved hawk's beard***  Volunteer Roundup Ready canola (1-4 leaf stage) <sup>4</sup> ,	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.  * 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.  4 2,4-D at 0.6 – 0.9 L/ha (280 – 420 g ae/ha).

		bluebur <sup>4</sup> , burdock <sup>4</sup> , cocklebur <sup>4</sup> , common plantain <sup>4</sup> , daisy fleabane <sup>4</sup> , false flax <sup>4</sup> , false ragweed <sup>4</sup> , goat's beard <sup>4</sup> , mustards <sup>4</sup> (except dog and tansy), prickly lettuce <sup>4</sup> , ragweeds <sup>4</sup> , Russian pigweed <sup>4</sup> , shepherd's purse <sup>4</sup> , stinging nettle <sup>4</sup> , sweet clover <sup>4</sup> , thymeleaved spurge <sup>4</sup> , wild radish <sup>4</sup> , wild sunflower <sup>4</sup> Volunteer Roundup Ready canola (rapeseed) (4-6 leaf stage) <sup>5</sup> , annual sowthistle <sup>5</sup> , common chickweed <sup>5</sup> , common purslane <sup>5</sup> , dog and tansy mustard <sup>5</sup> , oak-leaved goosefoot <sup>5</sup> , common groundsel <sup>5</sup> , hairy galinsoga <sup>5</sup> , hawkweed <sup>5</sup> , heal-all <sup>5</sup> , knotweed <sup>5</sup> , peppergrass <sup>5</sup> , pineapple weed <sup>5</sup> , prostrate pigweed <sup>5</sup> , purslane <sup>5</sup> , sheep sorrel <sup>5</sup> , green smartweed <sup>5</sup> , tumble pigweed <sup>5</sup> , velvetleaf <sup>5</sup> , volunteer canola (rapeseed) <sup>5</sup>	5 2,4-D at 1.2 – 1.5 L/ha (560 – 700 g ae/ha). Use a minimum of 80 L/ha water when using 2,4-D amine formulations at these rates.  Use this tank mix prior to seeding or after seeding but before crop emergence in wheat, winter wheat, barley and rye.  No surfactant required.
NCS Sicario II 540 Herbicide + 2,4-D <sup>B</sup>	0.5 – 0.67 + 1.2	Volunteer cereals, wild oats*, green foxtail*  Volunteer canola (rapeseed), wild mustard, flixweed, redroot pigweed, lady's thumb, stinkweed, kochia  Lamb's-quarters**, Russian thistle**	This tank mix is registered for summerfallow use only. Weeds should be less than 15 cm tall and actively growing for best results.  Use higher rate if weeds are beyond 8 cm in height.  * Use NCS Sicario II 540 Herbicide at 0.67 L/ha rate only for wild oat and green foxtail control.  ** Suppression only. See other tank mixtures for control options.  Add 350 mL/ha of surfactant listed in the "Surfactant Information" section.
NCS Sicario II 540 Herbicide	0.83 – 1.27	Volunteer cereals, wild oats, green foxtail, downy brome, giant	Weeds should be less than 15 cm tall and actively growing for best results.

+	+	foxtail, Persian darnel	
		Volunteer canola	Use higher rate if weeds are
MCPA <sup>C</sup>	0.5 –	(rapeseed) (non-Roundup	beyond 8 cm in height.
500 g/L	0.71	Ready), wild mustard,	
formulation; if		flixweed, redroot pigweed,	* DO NOT use these rates on
another	OR 0.5 –	lady's thumb, stinkweed,	plants greater than 8 cm in height.
formulation is	1.0 <sup>2</sup>	kochia, lamb's quarters,	
used, adjust		hempnettle, Russian thistle, volunteer flax, common	** For 3- to 4-leaf stage use 1.27
rate		ragweed*,	L/ha rate.
accordingly.		Canada fleabane, wild	*** For weeds 8 cm to 15 cm in
		buckwheat**, narrowleaved	height use 1.27 L/ha rate.
		hawk's beard***	neight doe 1.27 2/11d rate.
			<sup>1</sup> MCPA amine at 0.5 – 0.7 L/ha
		Volunteer Roundup Ready	(250 – 350 g ae/ha) prior to peas.
		canola (1-4 leaf stage) <sup>1,2</sup> ,	, , , , , , , ,
		bluebur <sup>3</sup> , burdock <sup>3</sup> (before 4	<sup>2</sup> MCPA at 0.5 – 1.0 L/ha (250 –
		leaf stage), false flax <sup>3</sup> ,	500 g ae/ha) prior to wheat,
		flixweed <sup>3</sup> , lamb's quarters <sup>3</sup> ,	barley, oats, corn (field and
		mustards <sup>3</sup> (except dog and	sweet) <sup>C</sup> , rye and flax.
		tansy),	22.22
		prickly lettuce <sup>3</sup> , ragweeds <sup>3</sup> ,	<sup>3</sup> MCPA at 0.7 – 1.0 L/ha (350 –
		redroot pigweed³, Russian	500 g ae/ha) only.
		pigweed <sup>3</sup> , shepherd's purse <sup>3</sup> ,	
		stinkweed (field pennycress) <sup>3</sup> , vetch <sup>3</sup> , wild	Use this tank mix prior to seeding
		radish <sup>3</sup> , wild sunflower <sup>3</sup>	in wheat, barley, rye, oats, corn (field and sweet) <sup>C</sup> , flax and field
		radion, wild carmover	peas <sup>C</sup> .
			podo .
			No surfactant required.
NCS Sicario II	0.83 –	Volunteer cereals, wild oats,	Weeds should be less than 15 cm
540 Herbicide	1.27	green foxtail, downy brome,	tall and actively growing for best
		giant foxtail, Persian darnel.	results.
+	+	Voluntoor canala (ransacad)	Lico higher rete if woods are
Buctril® M	0.5	Volunteer canola (rapeseed) (non-Roundup Ready), wild	Use higher rate if weeds are beyond 8 cm in height.
Herbicide	0.5 – 1.0 <sup>1</sup>	mustard, flixweed, redroot	beyond o om in neight.
Tierbicide	1.0	pigweed, lady's thumb,	* DO NOT use these rates on
		stinkweed, kochia, lamb's	plants greater than 8 cm in height.
		quarters, hempnettle,	
		Russian thistle, volunteer	** For 3- to 4-leaf stage use 1.27
		flax, common ragweed*,	L/ha rate.
		Canada fleabane, wild buckwheat**, narrowleaved	+++ =
		hawk's beard***	*** For weeds 8 cm to 15 cm in
		Hawk o board	height use 1.27 L/ha rate.
		Volunteer Roundup Ready	<sup>1</sup> Buctril M at 0.5 – 1.0 L/ha (280 –
		Canola (1-4 leaf stage) <sup>1,2</sup>	560 g ai/ha) for all crops listed.
		, , ,	
L	!	į.	<del> </del>

		1	Τ
		Seedlings up to the 4leaf stage <sup>2</sup> : green smartweed, pale smartweed, lady's thumb, cow cockle, redroot pigweed, flixweed, bluebur, shepherd's purse, kochia <sup>3</sup> , Russian thistle <sup>3</sup> , scentless chamomile <sup>4</sup> , volunteer sunflower, night flowering catchfly, cocklebur, velvetleaf <sup>5</sup> , ball mustard, American nightshade  Seedlings up to the 6-leaf stage <sup>2</sup> : wild tomato  Seedlings up to the 8leaf stage <sup>2</sup> : wild buckwheat, tartary buckwheat, common buckwheat, stinkweed, wild mustard, wormseed mustard, lamb's quarters, common ragweed, common groundsel  Perennials (top growth) <sup>2</sup> : Canada thistle, perennial sowthistle	<sup>2</sup> Buctril M at 1.0 L/ha (560 g ai/ha only). <sup>3</sup> Spray before plants are 5 cm high. <sup>4</sup> Spring annuals only. <sup>5</sup> 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.
			No surfactant required.
NCS Sicario II 540 Herbicide +	0.83 – 1.27 +	Volunteer cereals, wild oats, green foxtail, downy brome, giant foxtail, Persian darnel.	Weeds should be less than 15 cm tall and actively growing for best results.
MCPA amine	0.5 –	Volunteer canola (rapeseed) (non Roundup Ready), wild	Use higher rate if weeds are beyond 8 cm in height.
(500 g/L formulation; if another formulation is used, adjust rate accordingly)	0.7	mustard, flixweed, redroot pigweed, lady's thumb, stinkweed, kochia, lamb's quarters, hempnettle, Russian thistle, volunteer flax, common ragweed*, Canada fleabane, wild	* 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.
		buckwheat**, narrowleaved hawk's beard*** Volunteer Roundup Ready canola (1-4	*** For weeds 8 cm to 15 cm in height use 1.27 L/ha rate.
		leaf stage) <sup>3</sup> , bluebur <sup>4</sup> , burdock <sup>4</sup> (before 4 leaf stage), false flax <sup>4</sup> , flixweed <sup>4</sup> , lamb's quarters <sup>4</sup> , mustards <sup>4</sup>	<sup>3</sup> MCPA amine at 0.5 – 0.7 L/ha (250 – 350 g ae/ha) prior to lentils and chickpeas.
		(except dog and tansy), prickly lettuce <sup>4</sup> , ragweeds <sup>4</sup> ,	<sup>4</sup> MCPA amine at 0.7 L/ha (350 g ae/ha) only.

		redroot pigweed <sup>4</sup> , Russian pigweed <sup>4</sup> , shepherd's purse <sup>4</sup> , stinkweed <sup>4</sup> (field pennycress), vetch <sup>4</sup> , wild radish <sup>4</sup> , wild sunflower <sup>4</sup>	Use this tank mix prior to seeding in lentil and chickpea. Under drought conditions, deep seeding and/or brief rain showers after seeding may cause injury to emerging seedlings in sprayer overlaps.  No surfactant required.
NCC Cicaria II	0.02	Valuntaar aaraala Canada	•
NCS Sicario II	0.83 – 1.27	Volunteer cereals, Canada	Use this tank mix in summerfallow
540 Herbicide	1.27	thistle (suppression), cow cockle, wild buckwheat,	or prior to seeding wheat and
		Canada fleabane, common	barley.
+	+	ragweed, narrow-leaved	Pofor to Eveross Toss N. Co Johal
		hawk's beard, dandelion,	Refer to Express Toss-N-Go label for the appropriate weed growth
Express Toss-	10 g/ha	downy brome, flixweed, giant	stage.
N-Go Herbicide	(7.5 g	foxtail, green foxtail,	stage.
Or	ai/ha)	hempnettle, kochia, lady's	Add 350 mL/ha of surfactant
Express Toss-		thumb, lamb's quarters,	listed in the "Surfactant
N-Go Dry		persian darnel, redroot	Information" section.
Flowable 75%		pigweed, Russian thistle,	
Herbicide		stinkweed, volunteer canola,	
		volunteer flax, wild mustard,	
		wild oats	

<sup>♦</sup> For foxtail barley, refer to "Perennial Weed Control" table.

## **SURFACTANT INFORMATION**

#### NOTE:

**Addition of Surfactant** – NCS Sicario II 540 Herbicide tank mixtures for annual weed control may require the addition of a non-ionic surfactant registered for use, such as Agral 90, Ag-Surf or Companion. Refer to the above tables for recommendations. Surfactant should be added at a rate of 350 millilitres per hectare, in 50 – 100 litres of clean water.

#### ADDITIONAL IMPORTANT INFORMATION FOR ANNUAL WEED CONTROL

NCS Sicario II 540 Herbicide applied alone 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 the "General Information" and "Mixing and Application" sections.

<sup>&</sup>lt;sup>B</sup>0.56 kg ae/ha of 2,4-D. <sup>B</sup>, <sup>A</sup> Adjust rates accordingly for other 2,4-D formulations. Use only low volatile ester or amine formulations of 2,4-D.

<sup>&</sup>lt;sup>c</sup>Use only amine formulations of MCPA prior to seeding in corn and field peas.

#### WEED CONTROL IN TRUFLEX ROUNDUP READY CANOLA VARIETIES

WARNING: APPLY NCS SICARIO II 540 HERBICIDE TO TRUFLEX ROUNDUP READY CANOLA VARIETIES ONLY.

NOTE: ALWAYS USE PEDIGREED (I.E., CERTIFIED) TRUFLEX ROUNDUP READY CANOLA SEED. CANOLA NOT DESIGNATED AS TRUFLEX ROUNDUP READY WILL BE DAMAGED OR DESTROYED BY THIS TREATMENT.

For additional information and precautions refer to "General Information" and "Mixing and Application" sections.

Apply to TruFlex Roundup Ready canola only as directed.

DO NOT apply by air.

The following table describes the rate and specific application instructions for weed control in TruFlex Roundup Ready canola varieties.

## WEED CONTROL IN TRUFLEX ROUNDUP READY CANOLA VARIETIES

RATE	GROWTH	WEEDS CONTROLLED	COMMENTS
(L/ha)	STAGE OF		(Apply in 50 –100 L/ha
	CROP		water)
0.55-0.83 Single application	Emergence to first flower*	Annual Grasses Wild oats, green foxtail, volunteer barley, volunteer wheat, barnyard grass  Annual Broadleaves Stinkweed, redroot pigweed, wild mustard, Russian thistle, lamb's quarters, non-Roundup Ready volunteer canola (rapeseed), hempnettle, lady's thumb, kochia, chickweed, corn spurry, wild tomato, cleavers, wild buckwheat, shepherd's purse¹, cow cockle¹, night-flowering catchfly¹, smartweed¹, stork's-bill, flixweed, narrow-leaved hawk's beard  Perennials: (Suppression) Canada thistle, perennial sow thistle and dandelion  Perennials: (Season-long control) Quackgrass	¹The 0.55 L/ha rate can be used for control of shepherd's purse, cow cockle and night-flowering catchfly at the 1– 3 leaf stage of the crop or for control of smartweed at the 4–6 leaf stage.  Repeat applications may be required if a second flush of weeds germinates prior to canopy closure.
1.27 Single application	Emergence to first flower *	All the above weeds plus:  Perennials (season-long control)  Canada thistle, and perennial sow thistle	

0.83 Sequential applications	Emergence to first flower *	All the above weeds plus:  Annual Broadleaves round-leaved mallow  Perennials (season-long control) foxtail barley, Canada thistle, and	For sequential applications, ensure the crop has not advanced beyond the recommended growth stage
1.67 Single application	Emergence to first flower *	All the above weeds plus: Foxtail barley, smooth pigweed, common ragweed, cocklebur, eastern black nightshade, Pennsylvania smartweed, foxtail (yellow and giant), fall panicum, wild proso millet, crabgrass (smooth and large), velvet leaf, biennial wormwood² wire-stemmed muhly, volunteer adzuki beans³  (Suppression only) Common Milkweed Yellow nutsedge	<sup>2</sup> Biennial wormwood should be at 2-8 leaf stage and actively growing. <sup>3</sup> For control of volunteer adzuki beans (unifoliate to the 4 <sup>th</sup> trifoliate leaf stage) apply 1.67 L/ha. A second 1.67 L/ha application may be used for late flushes emerging after the initial treatment. Adzuki beans should be at unifoliate to fourth trifoliate leaf stage and actively growing.
1.67 Sequential applications	Emergence to first flower *	All the above weeds plus: Perennials (season-long control)  Dandelion Common Milkweed Field Bindweed Yellow nutsedge Horsenettle, Tall waterhemp Bur cucumber	A sequential application may be made at least 2 weeks after the first application.  A second 1.67 L/ha application may be used for late weed flushes emerging after the initial treatment.  Common milkweed should be 15-60 cm in height and actively growing.  Yellow nutsedge should be 5-15 cm in height and actively growing.  Horse-nettle (2-12-leaf stage)  Tall waterhemp up to and including the 18-leaf stage)  Bur Cucumber from the 1-18 leaf stage.
3.33 Single application	Emergence to 6-leaf	All the above weeds	One application allowed in crop per season

\* First flower is when 50% of the plants in the field have no more than one flower.

Ensure the crop has not advanced beyond the recommended growth stage for all applications.

#### **Guidelines:**

Repeat applications may be required if a second flush of weeds germinates prior to canopy closure.

Maximum 3.33L/ha is allowed for the postemergence use.

# TRUFLEX ROUNDUP READY HYBRID CANOLA SEED PRODUCTION For Use only in TRUFLEX ROUNDUP READY Canola Seed Production Systems

Apply using ground boom spray equipment.

NCS Sicario II 540 Herbicide may be applied for the control of non-glyphosate tolerant canola pollen parental line(s) in hybrid canola seed production fields containing both TruFlex Roundup Ready line(s) and non-TruFlex Roundup Ready line(s).

When pollination is complete or near completion, non-TruFlex Roundup Ready pollen parental line(s) may be controlled with an application of 0.83 to 1.67 litres per hectare of NCS Sicario II 540 Herbicide applied in 50 to 200 litres per hectare water.

Sequential applications (**maximum 2 applications**) may be used for the control of pollen parental line(s) but the total maximum rate applied must not exceed 1.67 litres per hectare. Allow at least 5 days between sequential applications.

#### WEED CONTROL IN ROUNDUP READY® CANOLA VARIETIES

WARNING: APPLY NCS SICARIO II 540 HERBICIDE ON ROUNDUP READY® CANOLA VARIETIES ONLY.

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

For additional information and precautions refer to "General Information" and "Mixing and Application" sections.

Apply NCS Sicario II 540 Herbicide in Roundup Ready® canola only as directed in the following weed control table.

Some short-term, visual yellowing may occur when NCS Sicario II 540 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 describes the rate and specific application instructions for control of annual and perennial weeds in Roundup Ready® canola varieties.

## WEED CONTROL IN ROUNDUP READY® CANOLA VARIETIES

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,	Ensure the crop has not advanced beyond the recommended growth stage.
		wild mustard, Russian thistle, lamb's quarters, non-Roundup Ready volunteer canola (rapeseed), hempnettle, lady's thumb, kochia, chickweed, corn spurry, wild tomato, cleavers*, wild buckwheat*, shepherd's purse*, cow cockle*, night-flowering catchfly*,	* Use the 0.83 L/ha rate 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– to 3-leaf stage of the crop or for control of smartweed at the 4– to 6-leaf stage.
		smartweed*, stork's-bill*, flixweed*, narrow-leaved hawk's beard*, round-leaved mallow***	** A single application of 0.83 L/ha is required.
		<u>Perennials</u>	*** Sequential applications of 0.83 L/ha are required.
		(suppression)** Canada thistle, perennial sow thistle, dandelion	**** Sequential applications of 0.83 L/ha are required or a single application of 1.27 L/ha.
		Perennials (season-long control) Quackgrass**, foxtail barley***, Canada thistle****, and	For sequential applications, ensure the crop has not advanced beyond the recommended growth stage.
		perennial sow thistle****	Maximum 1.66 L/ha is allowed for the postemergence use.

#### **TANK MIXTURES**

For season long control of top growth of Canada thistle and control of wild buckwheat in Roundup Ready® canola varieties, apply a tank mixture of 0.28 L/ha of Lontrel 360 Herbicide with 0.83 L/ha of NCS Sicario II 540 Herbicide, in 100 litres of water per hectare. Apply when canola is in the 2- to 6-leaf stage. Refer to the Lontrel 360 Herbicide and to the NCS Sicario II 540 Herbicide labels for a list of other weeds controlled, timing of application, water volumes and use precautions.

## ROUNDUP READY® HYBRID CANOLA SEED PRODUCTION For Use only in Roundup Ready® Hybrid Canola Seed Production Systems

Apply using ground boom spray equipment.

NCS Sicario II 540 Herbicide may be applied for the control of non-Roundup Ready® canola pollen parental line(s) in hybrid canola seed production fields containing both Roundup Ready® line(s) and non-Roundup Ready® line(s).

When pollination is complete or near completion, non-Roundup Ready® pollen parental line(s) may be controlled with an application of 0.83 to 1.67 litres per hectare of NCS Sicario II 540 Herbicide applied in 50 to 200 litres per hectare water.

Sequential applications (**maximum 2 applications**) may be used for the control of pollen parental line(s) but the total maximum rate applied must not exceed 1.67 litres per hectare. Allow at least 5 days between sequential applications.

## WEED CONTROL IN ROUNDUP READY OR ROUNDUP READY 2 YIELD® SOYBEAN VARIETIES

#### WEED CONTROL IN ROUNDUP READY 2 YIELD SOYBEAN VARIETIES

WARNING: APPLY NCS SICARIO II 540 HERBICIDE ON ROUNDUP READY 2 YIELD SOYBEAN VARIETIES ONLY.

NOTE: ROUNDUP READY 2 YIELD SOYBEAN VARIETIES ARE TOLERANT OF GLYPHOSATE, THE ACTIVE INGREDIENT IN NCS SICARIO II 540 HERBICIDE. ALWAYS USE PEDIGREED (I.E., CERTIFIED) SOYBEAN SEED DESIGNATED AS ROUNDUP READY 2 YIELD. SOYBEANS WHICH ARE NOT DESIGNATED AS ROUNDUP READY 2 YIELD 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 nightshade, wild mustard, wild buckwheat, foxtail (green, yellow, giant), barnyard grass, crabgrass (smooth, large), quackgrass, fall panicum, wild proso millet, wild oats, volunteer	<ul> <li>A single application of 1.67 L/ha will provide suppression only.</li> <li>For control of common milkweed, yellow nutsedge, round-leaved mallow and field bindweed, a second sequential application may be at least 2 weeks after the first application.</li> <li>A second 1.67 L/ha application may be used for late weed flushes emerging after the initial treatment.</li> </ul>

		barley, volunteer wheat, stinkweed, Russian thistle, non-Roundup Ready canola (rapeseed), hempnettle, kochia, chickweed, corn spurry, wild tomato, cleavers, shepherd's purse, cow cockle, night flowering catchfly, stork's bill, flixweed, narrow-leaved hawk's-beard common milkweed <sup>1,2</sup> , yellow nutsedge <sup>1,2</sup> , field bindweed <sup>2</sup> , perennial sow thistle, Canada thistle, wire-stemmed muhly.  Bur cucumber ( <i>Sicyos angulatus</i> ) <sup>3</sup> Volunteer adzuki beans ( <i>Vigna angularis</i> ) <sup>4</sup> Biennial Wormwood ( <i>Artemisia biennis</i> ) <sup>5</sup>	• • • • • 5	Any second application made must be applied no later than the flowering stage of the soybean.  Common milkweed should be 15-60 cm in height and actively growing.  Yellow nutsedge should be 515 cm in height and actively growing.  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 time of application will escape treatment.  Sequential applications of 1.67 L/ha followed by 1.67 L/ha at the 1-18 leaf stage. Applications should be at least 2 weeks apart for best results.  For control of volunteer adzuki beans (unifoliate to the 4th trifoliate leaf stage) apply 1.67 L/ha. A second 1.67 L/ha application may be used for late flushes emerging after the initial treatment.  Adzuki beans should be at unifoliate to fourth trifoliate leaf stage and actively growing.  Only one application per season at 1.67L/ha. Biennial wormwood should be at 2-8 leaf stage and actively growing.
3.33	First trifoliate leaf stage through flowering	All weeds listed above plus horse-nettle <sup>6</sup> and tall waterhemp <sup>7</sup>	•	Only one application per season at 3.33 L/ha.  Common milkweed should be 15-60 cm in height and actively growing.  Yellow nutsedge should be 5-15 cm in height and actively growing.  Plants not fully emerged at the time of application will escape treatment.  For season-long control of horse-nettle (Solanum carolinense) (2- to 12-leaf stage) or, for control of tall waterhemp (Amaranthus tuberculatos) (up to and including the 18-leaf stage) apply 3.33 L/ha. Alternatively, sequential applications of 1.67 L/ha followed by 1.67 L/ha may be applied. Applications

			7	should be at least 2 weeks apart for best results. For the control of Tall Waterhemp use the higher rate if weeds are beyond the 6-leaf stage.
4.67	First trifoliate leaf stage through flowering	All weeds listed above plus control of volunteer alfalfa and bromegrass		Only one application per season at 4.67 L/ha.  Alfalfa should have 9 or more leaves and be at least 10-15 cm tall.  Bromegrass should have at least 3-5 leaves and be at least 10-15 cm tall.  Short term yellowing may occur in sprayer overlap areas with the 4.67 L/ha application rate. This effect is temporary and will not influence crop growth or yield.

<sup>♦</sup> 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.

#### WEED CONTROL IN ROUNDUP READY SOYBEAN VARIETIES

WARNING: APPLY NCS SICARIO II 540 HERBICIDE ON ROUNDUP READY SOYBEAN VARIETIES ONLY.

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

**DO NOT** apply by air.

Apply 1.67 – 3.33 L/ha of NCS Sicario II 540 Herbicide to Roundup Ready soybean varieties.

See the above section "WEED CONTROL IN ROUNDUP READY 2 YIELD SOYBEAN VARIETIES" for use directions.

The 4.67 L/ha rate can only be applied to soybeans designated as Roundup Ready 2 Yield.

#### **TANK MIXTURES**

Tank mixtures may be applied to both Roundup Ready 2 Yield and Roundup Ready soybean varieties

#### NCS Sicario II 540 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 NCS Sicario II 540 Herbicide at a rate of 1.67 liters per hectare. Use 0.16 to 0.21 liters per hectare of Pursuit and apply up to and including the 3<sup>rd</sup> trifoliate leaf stage of the Roundup Ready soybeans in 100-200 liters 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 centimeters (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 NCS Sicario II 540 Herbicide as per instructions on this label.

A PHI of 100 days is required for the tank mix of NCS Sicario II 540 Herbicide and Pursuit herbicide on Roundup Ready 2 yield soybeans.

Only one application per season of NCS Sicario II 540 Herbicide at 1.67 liters per hectare tank mixed with Pursuit herbicide at 0.16 to 0.21 liters per hectare is permitted.

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

NCS Sicario II 540 Herbicide Plus FirstRate<sup>™</sup> Herbicide (For Use in Eastern Canada Only) For added residual control of common ragweed, velvetleaf, cocklebur, jimsonweed and giant ragweed, FirstRate Herbicide may be tank mixed with NCS Sicario II 540 Herbicide at a rate of 0.83 - 1.67 liters per hectare. Use 20.8 grams per hectare of FirstRate Herbicide.

Do not harvest soybean plants for forage or hay. Do not harvest soybeans for 65 days after application.

Only one application per season of NCS Sicario II 540 Herbicide tank mixed with FirstRate Herbicide is permitted.

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

## NCS Sicario II 540 Herbicide plus Sencor® 75 DF Herbicide for Control of Spreading Atriplex (Eastern Canada only)

For the control of spreading atriplex, apply a preplant application of Sencor 75 DF Herbicide at 0.75 - 1.11 kg product per hectare on medium textured soils or 1.11 – 1.5 kg product per hectare on fine textured soils plus NCS Sicario II 540 Herbicide at 1.67 litres per hectare. Do not apply on coarse textured soils. Apply when spreading atriplex is up to the 10-leaf stage of growth. Only one application per year is permitted.

Refer to the Sencor 75 DF Herbicide label for further use directions, safety precautions and handling instructions. Consult Table entitled "Sencor 75 DF Alone: Preemergence Application" for specific rates based on soil types and organic matter.

## NCS Sicario II 540 Herbicide plus Assure® II Herbicide

RATE	GROWTH STAGE OF CROP	WEEDS CONTROLLED ◆	COMMENTS
1.67 – 3.33 L/ha NCS Sicario II 540 Herbicide + 0.25 - 0.38 L/ha Assure II Herbicide	First trifoliate leaf stage through flowering.	Volunteer Roundup Ready corn.  Apply at the 2- to 6- leaf stage of the weed.	See additional information following this table.

<sup>\*</sup>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.

## **Volunteer Roundup Ready Corn Control**

For control of volunteer Roundup Ready corn, Assure II herbicide may be tank mixed with NCS Sicario II 540 Herbicide. Use 1.67 to 3.33 litres per hectare NCS Sicario II 540 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 NCS Sicario II 540 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 NCS Sicario II 540 Herbicide and Assure II herbicide on Roundup Ready 2 Yield soybeans.

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

NCS Sicario II 540 Herbicide plus Venture® L Herbicide

RATE	GROWTH STAGE OF CROP	WEEDS CONTROLLED ◆	COMMENTS
1.67 – 3.33 L/ha NCS Sicario II 540 Herbicide + 0.45 - 0.60 L/ha Venture L Herbicide*	First trifoliate leaf stage through third trifoliate leaf stage	Volunteer Roundup Ready corn.  Apply at the 2- to 5leaf stage of the weed.	See additional information following this table.

<sup>\*</sup>Turbocharge 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.

For control of volunteer Roundup Ready corn, Venture L Herbicide may be tank mixed with NCS Sicario II 540 Herbicide. Use 1.67 to 3.33 litres per hectare NCS Sicario II 540 Herbicide and 0.45 - 0.60 litre per hectare of Venture L Herbicide.

The higher rate of Venture L Herbicide 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 200 litres per hectare of clean water.

**Mixing:** Add and mix Venture L Herbicide as per instructions on the Venture L Herbicide label and then add NCS Sicario II 540 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 third trifoliate leaf stage and when the volunteer Roundup Ready corn is at the 2 to 5 leaf stage.

A PHI (preharvest interval) of 90 days is required for the tank-mix of NCS Sicario II 540 Herbicide and Venture L Herbicide on Roundup Ready 2 Yield and Roundup Ready Soybeans.

Refer to the Venture L Herbicide label for further safety precautions and handling instructions.

## WEED CONTROL IN ROUNDUP READY 2<sup>™</sup> XTEND SOYBEANS AND XTENDFLEX<sup>™</sup> SOYBEANS

NCS Sicario II 540 Herbicide and XtendiMAX with VaporGrip Technology Herbicide Use In Roundup Ready 2 Xtend Soybeans and XtendFlex™ Soybeans

WARNING: THIS TANK MIXTURE CAN ONLY BE APPLIED TO SOYBEAN VARIETIES DESIGNATED AS ROUNDUP READY 2 XTEND AND XTENDFLEX™ SOYBEANS. DO NOT APPLY THIS TANK MIXTURE TO ROUNDUP READY 2 YIELD OR ROUNDUP READY SOYBEAN VARIETIES.

For control of many annual and perennial broadleaf weeds, as well as residual suppression or control of small seeded broadleaf weeds, apply XtendiMAX with VaporGrip Technology at 823 mL to 1.71 L/ha plus NCS Sicario II 540 Herbicide at 1.67 L/ha to 4.67 L/ha in a minimum spray volume of 100 L/ha.

#### **Pre-Harvest Interval(s):**

• 7-10 days for soybean forage and 13–15 days for soybean hay.

Apply XTENDIMAX WITH VAPORGRIP TECHNOLOGY HERBICIDE to weeds < 10 cm

Do not apply this tank mixture to Roundup Ready 2 Xtend soybean and XtendFlex<sup>™</sup> Soybeans using aerial spray equipment.

Refer to the XtendiMAX with VaporGrip Technology herbicide label for general precautions, directions on spray drift management, list of weeds controlled and for further safety precautions and handling instructions.

# WEED CONTROL IN CORN VARIETIES WITH ROUNDUP READY® 2 TECHNOLOGY AND MON 87419 FIELD CORN

WARNING: APPLY NCS SICARIO II 540 HERBICIDE ON ONLY CORN VARIETIES THAT ARE DESIGNATED AS CONTAINING ROUNDUP READY® 2 TECHNOLOGY (I.E. CONTAINS A ROUNDUP READY GENE) AND MON 87419 FIELD CORN.

NOTE: CORN VARIETIES CONTAINING ROUNDUP READY® 2 TECHNOLOGY AND MON 87419 FIELD CORN ARE TOLERANT OF GLYPHOSATE, THE ACTIVE INGREDIENT IN NCS SICARIO II 540 HERBICIDE. ALWAYS USE PEDIGREED (I.E. CERTIFIED) CORN SEED DESIGNATED AS CONTAINING ROUNDUP READY® 2 TECHNOLOGY OR CORN VARIETIES DESIGNATED AS MON 87419. CORN WHICH IS NOT DESIGNATED AS CONTAINING ROUNDUP READY® 2 TECHNOLOGY OR CORN VARIETIES NOT DESIGNATED AS MON 87419 MAY BE DAMAGED OR DESTROYED BY THIS TREATMENT.

# **DO NOT** apply by air.

RATE	GROWTH	WEEDS	COMMENTS
(L/ha)	STAGE OF CROP	CONTROLLED◆	(use 100-200 L/ha water volumes)
1.67	Up to and including 8 leaf stage	Velvetleaf, common ragweed, common lamb's quarters, redroot pigweed, smooth pigweed, cocklebur, green smartweed, lady'sthumb, Pennsylvania smartweed, Eastern black nightshade, wild mustard, 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-Roundup Ready canola (rapeseed), hemp-nettle,	<ol> <li>A single application of 1.67 L/ha will provide suppression only.</li> <li>For control of common milkweed, yellow nutsedge, round-leaved mallow and field bindweed, a second sequential application may be at least 2 weeks after the first application.</li> <li>A second 1.67 L/ha application may be used for late weed flushes emerging after the initial treatment.</li> <li>Any second application must be applied no later than the 8-leaf stage of the corn.</li> <li>Common milkweed should be 15-60 cm in height and actively growing.</li> <li>Yellow nutsedge should be 5-15 cm in height and actively growing.</li> </ol>

		kochia, chickweed, corn spurry, wild tomato, cleavers, shepherd's purse, cow cockle, night-flowering catchfly, stork's-bill, flixweed, narrow-leaved hawk's-beard  common milkweed <sup>1,2</sup> , yellow nutsedge <sup>1,2</sup> , round-leaved mallow <sup>2</sup> , field bindweed <sup>2</sup> , perennial sow thistle, Canada thistle, wire-stemmed muhly	•	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 time of application will escape treatment.
3.33	Up to and including 6 leaf stage	All weeds listed above	•	Only one application per season at 3.33 L/ha.  Common milkweed should be 15-60 cm in height and actively growing.  Yellow nutsedge should be 515 cm in height and actively growing.  Plants not fully emerged at the time of application will escape treatment.

<sup>♦</sup> 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.

# **TANK MIXTURES**

For tank mixtures, add herbicide according to instructions on the product label, and then add NCS Sicario II 540 Herbicide according to instructions on this label. Refer to the tank mix herbicide partner product labels for further safety precautions, use recommendations and product handling instructions.

**DO NOT** apply by air.

### TANK MIXTURES FOR USE IN MON 87419 FIELD CORN ONLY

RATE	GROWTH STAGE OF CROP	WEEDS CONTROLLED♦	COMMENTS (Use 100-200 L/ha water volumes)
3.33 L/ha NCS Sicario II 540 Herbicide +	Spike to and including the 8-leaf stage	Weeds controlled by NCS Sicario II 540 Herbicide plus improved control of velvetleaf	

1.71 L/ha XtendiMax with VaporGrip Technology Herbicide		and extended control of late germinating, deep rooted annuals on the XtendiMax with VaporGrip Technology Herbicide label.	
3.33 L/ha NCS Sicario II 540 Herbicide + 1.26 L/ha XtendiMax 2 with VaporGrip Technology Herbicide	Spike to and including the 8-leaf stage	Weeds controlled by NCS Sicario II 540 Herbicide X plus improved control of velvetleaf and extended control of late germinating, deep rooted annuals on the XtendiMax 2 with VaporGrip Technology Herbicide label.	

<sup>♦</sup> 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.

# TANK MIXTURES FOR USE IN CORN VARIETIES WITH ROUNDUP READY® 2 TECHNOLOGY AND MON 87419 FIELD CORN

RATE	GROWTH STAGE OF	WEEDS CONTROLLED◆	COMMENTS (Use 100-200 L/ha
	CROP		water volumes)
1.67 L/ha NCS Sicario II 540 Herbicide + 1.56-2.08 L/ha Aatrex Liquid 480 Herbicide or Converge 480 Herbicide	Up to and including the 5-leaf stage.	Residual control of lamb's- quarters, redroot pigweed, common ragweed.	Tank-mix should be used when only a single application timing is desired. Use the higher rate of Aatrex Liquid 480 Herbicide or Converge 480 Herbicide for heavier weed infestations.
1.67 L/ha NCS Sicario II 540 Herbicide + 2.5 – 3.7 L/ha Marksman Herbicide	Up to and including the 5-leaf stage.	Residual control of lamb's- quarters, redroot pigweed, common ragweed, velvetleaf.	Tank-mix should be used when only a single application timing is desired. Use the higher rate of Marksman for heavier weed infestations.
1.67 L/ha NCS Sicario II 540 Herbicide + 0.56 – 1.12 L/ha 2,4-D Herbicide*	Before the corn is 15 cm tall (leaf extended) and/or before the 6-leaf stage.	Volunteer Roundup Ready canola – up to the 4-leaf stage.	Tank mix is most effective when treating small (4 leaf or less) canola plants.

Two applications:  First application:  1.67 L/ha  NCS Sicario II 540  Herbicide  +  0.56 L/ha  2,4-D Herbicide*  Second application:  1.67 L/ha NCS Sicario II  540 Herbicide	Before the corn is 15 cm tall (leaf extended) and/or before the 6-leaf stage.	Volunteer Roundup Ready canola – up to the 4-leaf stage.	Tank mix is most effective when treating small (4 leaf or less) canola plants.
0.42-0.56 L/ha 2,4-D Herbicide*			
1.67 L/ha NCS Sicario II 540 Herbicide + 13.3 g/ha Peak 75WG Herbicide + 0.41 L/ha XtendiMax with VaporGrip Technology Herbicide + non ionic surfactant (0.2% v/v)	Spike up to and including the 5-leaf stage.	Volunteer Roundup Ready canola – up to the 4-leaf stage.	Tank mix is most effective when treating small (4 leaf or less) canola plants.
1.67 L/ha NCS Sicario II 540 Herbicide + 1.1 L/ha Dyvel DSp Liquid Herbicide	Before the corn is 15 cm tall (leaf extended)	Volunteer Roundup Ready canola – up to the 4 leaf stage.	Tank mix is most effective when treating small (4 leaf or less) canola plants.
1.67 L/ha NCS Sicario II 540 Herbicide + 0.21 L/ha Callisto® 480SC Herbicide	3 - 8 leaf stage of corn	Eastern black nightshade, velvetleaf, redroot pigweed, common ragweed (suppression only) plus emerged annual and perennial weeds	Add Agral 90 at 0.2% v/v  Apply up to the 8-leaf stage of broadleaf weeds  Some perennial weeds
1.67 L/ha NCS Sicario II	2 0 loof	Eastern blook sightshads	may not be controlled with these rates.
540 Herbicide	3 - 8 leaf stage of corn	Eastern black nightshade, velvetleaf, redroot	Add Agral 90 at 0.2% v/v

+ 0.21 L/ha Callisto® 480SC Herbicide + 0.58 L/ha Aatrex Liquid		pigweed, common ragweed plus emerged annual and perennial weeds	Apply up to the 8-leaf stage of broadleaf weeds
480 Herbicide			Some perennial weeds may not be controlled with these rates
1.67 L/ha NCS Sicario II 540 Herbicide + 2.5 L/ha Primextra® II Magnum® Herbicide	Apply up to and including 6 leaf stage of corn.	Annual grasses and broadleaf weeds, emerged annual or perennial weeds	This tank mix requires the use of a surfactant. AGRAL 90 or Ag-Surf may be used.
Magnumo Herbicide			Do NOT apply this tank-mix to soils with less than 1% or more than 10% organic matter.
1.67 L/ha NCS Sicario II 540 Herbicide + 0.857 L/ha XtendiMax with VaporGrip Technology Herbicide	Spike to 5- leaf	Weeds controlled by NCS Sicario II 540 Herbicide plus improved control of Velvetleaf and extended control of late germinating, deep rooted annuals on the XtendiMax with VaporGrip Technology Herbicide label.	
1.67 L/ha NCS Sicario II 540 Herbicide + 285 g/ha Distinct Herbicide + Non ionic surfactant + 28% UAN	2 to 6 leaf	Weeds controlled by NCS Sicario II 540 Herbicide plus extended control of late emerging weeds listed on the Distinct Herbicide label.	Non-ionic surfactant applied at 0.2% v/v 28% UAN applied at 1.25% v/v
1.67 L/ha NCS Sicario II 540 Herbicide + 1.25 L/ha Dual II Magnum Herbicide + 2.08 L/ha Aatrex Liquid 480 Herbicide or Converge 480 Herbicide	Spike to 6 leaf	Sicario II 540 Herbicide plus extended control of annual grass and broadleaf weeds on the tank mix partner labels.	
1.67 L/ha NCS Sicario II 540 Herbicide	Emergence to 3 leaf	Weeds controlled by NCS Sicario II 540 Herbicide	

+		plus extended control of	
1.35 L/ha Frontier MAX		annual grass and broadleaf	
Herbicide		weeds on the tank mix	
+		partner labels.	
2.08 L/ha Aatrex Liquid			
480 Herbicide or			
Converge 480 Herbicide			
1.67 L/ha NCS Sicario II	Up to and	Weeds controlled by NCS	
540 Herbicide	including the	Sicario II 540 Herbicide	
+	4 leaf stage of	plus extended control of	
2.8 kg/ha Prowl 60	corn	annual grass and broadleaf	
WDG Herbicide		weeds on the tank mix	
+		partner labels.	
2.08 L/ha Aatrex Liquid			
480 Herbicide or			
Converge 480 Herbicide			
1.67 L/ha NCS Sicario II	3 to 8 leaf	Weeds controlled by	Add non ionic
540 Herbicide	stage of corn	NCS Sicario II 540	surfactant at 0.2%v/v
+		Herbicide plus	
0.21 L/ha Callisto®		extended control of eastern	
480SC Herbicide		black nightshade,	
+		velvetleaf, redroot	
Non ionic surfactant		pigweed, and common	
		ragweed.	
1.67 L/ha NCS Sicario II	Spike to 6 leaf	Weeds controlled by NCS	
540 Herbicide	stage of corn	Sicario II 540 Herbicide	
+		plus extended control of	
2.5 - 3.0 L/ha Primextra		annual grass and broadleaf	
II Magnum Herbicide		weeds on the Primextra II	
		Magnum Herbicide label.	

<sup>\* 500</sup> g ae/litre of 2,4-D formulation. Adjust rates accordingly for other 2,4-D formulations. Use only low volatile ester or amine formulations of 2,4-D. Some corn hybrids may be injured by an application of 2,4-D. It is recommended that the corn seed provider be contacted regarding the tolerance of the corn hybrid to be treated, to 2,4-D prior to application of this tank mix.

### WEED CONTROL IN SWEET CORN VARIETIES WITH ROUNDUP READY 2 TECHNOLOGY

WARNING: APPLY NCS SICARIO II 540 HERBICIDE ON ONLY SWEET CORN VARIETIES THAT ARE DESIGNATED AS CONTAINING ROUNDUP READY 2 TECHNOLOGY (I.E. CONTAINS A ROUNDUP READY GENE).

NOTE: SWEET CORN VARIETIES CONTAINING ROUNDUP READY 2 TECHNOLOGY ARE TOLERANT OF GLYPHOSATE, THE ACTIVE INGREDIENT IN NCS SICARIO II 540 HERBICIDE. ALWAYS USE PEDIGREED (I.E. CERTIFIED) SWEET CORN SEED

<sup>♦</sup> 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.

DESIGNATED AS CONTAINING ROUNDUP READY 2 TECHNOLOGY. SWEET CORN WHICH IS NOT DESIGNATED AS CONTAINING ROUNDUP READY 2 TECHNOLOGY MAY BE DAMAGED OR DESTROYED BY THIS TREATMENT.

### WEED CONTROL:

RATE (L/ha)	GROWTH STAGE OF CROP	WEEDS CONTROLLED◆	COMMENTS (use 100-200 L/ha water volumes)
1.67	Up to and including 8 leaf stage	See "Weeds Controlled" in the table under the "WEED CONTROL IN CORN VARIETIES WITH ROUNDUP READY® TECHNOLOGY AND MON 87419 FIELD CORN" section.	<ul> <li>See Comments in the "WEED CONTROL IN CORN VARIETIES WITH ROUNDUP READY® TECHNOLOGY AND MON 87419 FIELD CORN" section.</li> <li>A second 1.67 L/ha application may be used for late weed flushes emerging after the initial treatment.</li> <li>Any second application must be applied no later than the 8-leaf stage of the corn.</li> </ul>
3.33	Up to and including 6 leaf stage	See "Weeds Controlled" in the table under the "WEED CONTROL IN CORN VARIETIES WITH ROUNDUP READY® TECHNOLOGY AND MON 87419 FIELD CORN" section.	<ul> <li>See Comments in the "WEED CONTROL IN CORN VARIETIES WITH ROUNDUP READY®     TECHNOLOGY AND MON 87419     FIELD CORN" section.</li> <li>Only one application per season at 3.33 L/ha.</li> </ul>

<sup>♦</sup> 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.

# TANK MIXES - Do not apply Tank Mixes to sweet corn varieties with Roundup Ready 2 Technology

Allow a minimum of 30 days between application of this product and harvest.

**DO NOT** apply by air.

### WEED CONTROL IN ROUNDUP READY® SUGAR BEETS

WARNING: APPLY NCS SICARIO II 540 HERBICIDE ON ROUNDUP READY SUGAR BEET VARIETIES ONLY.

NOTE: ALWAYS USE PEDIGREED (CERTIFIED) SUGAR BEET SEED DESIGNATED AS ROUNDUP READY. SUGAR BEETS WHICH ARE NOT DESIGNATED AS ROUNDUP READY WILL BE DAMAGED OR DESTROYED BY THIS TREATMENT.

**DO NOT** apply by air.

<sup>♦</sup> Plants not fully emerged at the time of application will escape treatment.

For weed control in Roundup Ready sugar beets apply 0.83 – 2.30 L/ha of NCS Sicario II 540 Herbicide to emerged weeds. Refer to "Annual Weed Control" and "Perennial Weed Control" sections for a listing of weeds controlled.

Apply NCS Sicario II 540 Herbicide to emerged weeds up to 15 cm in height.

Up to four applications of NCS Sicario II 540 Herbicide may be applied to Roundup Ready sugar beets. Allow a minimum of 10 days between applications.

Do not exceed a total maximum quantity of 7.31 L/ha of this product per season (e.g. the first application of up to 2.30 L/ha plus 3 applications of up to 1.67 L/ha).

Do not harvest Roundup Ready sugar beets within 30 days after the final application of NCS Sicario II 540 Herbicide.

AERIAL APPLICATION FOR WEED CONTROL IN TRUFLEX ROUNDUP READY CANOLA, ROUNDUP READY 2 YIELD SOYBEANS, ROUNDUP READY SOYBEANS, CORN VARIETIES WITH ROUNDUP READY 2 TECHNOLOGY, AND ROUNDUP READY SUGAR BEETS—WET FIELD CONDITIONS ONLY

Refer to the general guidelines for aerial application in the "MIXING AND APPLICATION EQUIPMENT" and "SPRAY BUFFER ZONES" sections as well as specific instructions in this section.

# RESTRICTED USES

# FOR SALE FOR USE IN THE PRAIRIE PROVINCES AND INTERIOR OF BRITISH COLUMBIA (INCLUDING THE PEACE RIVER REGION) ONLY

**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 glyphosate herbicide aerial application training course provided by Northern Cropscience 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.

This product may be applied with aerial equipment only if ground equipment cannot be used due to flooded field conditions.

NCS Sicario II 540 Herbicide may be applied with aerial application equipment for control of certain annual grass and broadleaf weeds and the suppression or season long control of certain perennial weeds.

# EXTREME CARE MUST BE TAKEN WHEN APPLYING THIS PRODUCT TO PREVENT INJURY TO DESIRABLE PLANTS AND CROPS.

**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.

### **Directions for use**

THIS USE IS LIMITED TO SITUATIONS WHERE FIELD CONDITIONS ARE EXTREMELY WET SUCH THAT GROUND SPRAYERS (TRACTOR & FIELD SPRAYER, HIGH CLEARANCE SPRAYERS OR ANY KIND OF GROUND SPRAYER) CANNOT TRAVEL ACROSS THE FIELD TO MAKE EFFECTIVE WEED CONTROL APPLICATIONS.

# DO NOT TANK MIX NCS SICARIO II 540 HERBICIDE WITH ANY OTHER PRODUCT WHEN APPLIED BY AERIAL APPLICATION.

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.

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 IS 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 target 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 spray buffer zones should be observed.

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

## **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 manufacturer at 647-921-9582 or obtain technical advice from the distributor or your provincial agricultural representative.

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

Volume: Apply the recommended rate in a minimum spray volume of 30-100 litres per hectare. Spray Buffer Zones: Refer to the "SPRAY BUFFER ZONES" section for required spray buffer zones.

AERIAL APPLICATION FOR WEED CONTROL IN TRUFLEX ROUNDUP READY CANOLA – WET FIELD CONDITIONS ONLY

WARNING: APPLY NCS SICARIO II 540 HERBICIDE TO TRUFLEX ROUNDUP READY CANOLA VARIETIES ONLY.

NOTE: ALWAYS USE PEDIGREED (I.E., CERTIFIED) TRUFLEX ROUNDUP READY CANOLA SEED. CANOLA NOT DESIGNATED AS TRUFLEX ROUNDUP READY WILL BE DAMAGED OR DESTROYED BY THIS TREATMENT.

Apply 0.55 – 3.33 L/ha of NCS Sicario II 540 Herbicide from the 0 to 6 leaf stage of the crop. Repeat applications may be required if a second flush of weeds germinates prior to canopy closure. For sequential applications, a maximum of 1.67 L/ha may be applied twice up to the first flower stage. Ensure the crop has not advanced beyond the recommended growth stage. A total maximum of 3.33 L/ha NCS Sicario II 540 Herbicide allowed for postemergence use. Refer to the "WEED CONTROL IN TRUFLEX<sup>TM</sup> ROUNDUP READY® CANOLA VARIETIES" section for weeds controlled and application rates.

DO NOT apply tank mixtures of NCS Sicario II 540 Herbicide with any other product by aerial application.

AERIAL APPLICATION FOR WEED CONTROL IN ROUNDUP READY CANOLA – WET FIELD CONDITIONS ONLY WARNING:

APPLY NCS SICARIO II 540 HERBICIDE ON ROUNDUP READY CANOLA VARIETIES ONLY.

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

Some short-term, visual yellowing may occur when NCS Sicario II 540 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.

Apply 0.55 – 1.27 L/ha of NCS Sicario II 540 Herbicide at the 0 to 6 leaf stage of the crop. Repeat applications may be required if a second flush of weeds germinates prior to canopy closure. For sequential applications, ensure the crop has not advanced beyond the recommended growth stage. A total maximum of 1.66 L/ha NCS Sicario II 540 Herbicide

allowed for postemergence use. Refer to the "WEED CONTROL IN ROUNDUP READY® CANOLA VARIETIES" section for weeds controlled and application rates.

DO NOT apply tank mixtures of NCS Sicario II 540 Herbicide with any other product by aerial application.

AERIAL APPLICATION FOR WEED CONTROL IN ROUNDUP READY 2 YIELD SOYBEANS AND ROUNDUP READY SOYBEANS – WET FIELD CONDITIONS ONLY

WARNING: APPLY NCS SICARIO II 540 HERBICIDE ON ROUNDUP READY 2 YIELD SOYBEANS AND ROUNDUP READY SOYBEAN VARIETIES ONLY.

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

Apply 1.67 L/ha of NCS Sicario II 540 Herbicide from the first trifoliate leaf stage through flowering stage of the crop. Repeat application may be required for late weed flushes emerging after the initial treatment. Any second application must be applied no later than the flowering stage of the soybean. A total maximum of 3.34 L/ha NCS Sicario II 540 Herbicide Maximum is allowed for postemergence use. Refer to the "WEED CONTROL IN ROUNDUP READY OR ROUNDUP READY 2 YIELD® SOYBEAN VARIETIES" section for weeds controlled and application rates.

DO NOT apply tank mixtures of NCS Sicario II 540 Herbicide with any other product by aerial application.

AERIAL APPLICATION FOR WEED CONTROL IN CORN VARIETIES WITH ROUNDUP READY 2 TECHNOLOGY – WET FIELD CONDITIONS ONLY

WARNING: APPLY NCS SICARIO II 540 HERBICIDE ON CORN VARIETIES WITH ROUNDUP READY 2 TECHNOLOGY

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

Apply 1.67 L/ha of NCS Sicario II 540 Herbicide up to and including the 8-leaf stage of corn. Repeat application may be required for late weed flushes emerging after the initial treatment. Any second application must be applied no later than the 8-leaf stage of corn. A total maximum of 3.34 L/ha NCS Sicario II 540 Herbicide is allowed for postemergence use. Refer to the "WEED CONTROL IN CORN VARIETIES WITH ROUNDUP READY ® 2 TECHNOLOGY AND MON 87419 FIELD CORN" section for weeds controlled and application rates.

DO NOT apply tank mixtures of NCS Sicario II 540 Herbicide with any other product by aerial application.

AERIAL APPLICATION FOR WEED CONTROL IN ROUNDUP READY SUGAR BEETS – WET FIELD CONDITIONS ONLY

WARNING: APPLY NCS SICARIO II 540 HERBICIDE ON ROUNDUP READY SUGAR BEET VARIETIES ONLY.

NOTE: ALWAYS USE PEDIGREED (CERTIFIED) SUGAR BEET SEED DESIGNATED AS ROUNDUP READY. SUGAR BEET WHICH ARE NOT DESIGNATED AS ROUNDUP READY WILL BE DAMAGED OR DESTROYED BY THIS TREATMENT.

Apply 0.83-1.67 L/ha of NCS Sicario II 540 Herbicide. A single repeat application may be required for late weed flushes emerging after the initial treatment. Allow a minimum of 10 days between applications. A total maximum of 3.34 L/ha NCS Sicario II 540 Herbicide is allowed for postemergence use. Refer to the "WEED CONTROL IN ROUNDUP READY® SUGAR BEET VARIETIES" section for additional information.

Do not harvest Roundup Ready sugar beets within 30 days after the final application of NCS Sicario II 540 Herbicide.

WEED CONTROL IN ALFALFA VARIETIES WITH ROUNDUP READY TECHNOLOGY (DO NOT APPLY TO ALFALFA GROWN FOR SEED PRODUCTION)

WARNING: APPLY NCS SICARIO II 540 HERBICIDE TO ALFALFA VARIETIES WITH ROUNDUP READY TECHNOLOGY ONLY.

NOTE: ALWAYS USE PEDIGREED (I.E. CERTIFIED) ALFALFA SEED DESIGNATED AS ROUNDUP READY. ALFALFA SEED WHICH IS NOT DESIGNATED AS ROUNDUP READY WILL BE DAMAGED OR DESTROYED BY THIS TREATMENT.

ALFALFA VARIETIES WITH ROUNDUP READY TECHNOLOGY ARE TOLERANT OF GLYPHOSATE, THE ACTIVE INGREDIENT IN NCS SICARIO II 540 HERBICIDE.

**DO NOT** apply by air.

Applications can be made from emergence until 5 days prior to cutting. A sequential treatment may be applied to alfalfa varieties with Roundup Ready Technology for control of late weed flushes. Allow a minimum of 5 days between application and cutting of alfalfa. Additional applications of this product should be at least 25 days apart.

Total number of in-crop applications not to exceed 3 per growing season.

**New Stand Establishment (Seedling Year):** Due to the biology and breeding constraints of alfalfa, up to 10 percent of the seedlings may not contain a Roundup Ready gene and will not survive or thrive after the first application of this product. To limit the undesirable effects of stand gaps created by the loss of alfalfa plants not containing a Roundup Ready gene, an application of this product should be applied at or before the 4 trifoliate leaf stage of alfalfa during the establishment (seedling) year.

Note: Where alfalfa with Roundup Ready Technology is grown with a companion or cover crop, or is overseeded with a second species, in-crop (over-the-top) applications of this product will eliminate the non-Roundup Ready (non-glyphosate tolerant) species.

## WEED CONTROL IN ALFALFA VARIETIES WITH ROUNDUP READY TECHNOLOGY

RATE (L/ha)	GROWTH STAGE OF CROP	WEEDS CONTROLLED	COMMENTS (Apply in 50 –100 L/ha water)
1.67 single application	Emergence until 5 days	Annual Grasses Wild oats, green foxtail, volunteer barley, volunteer wheat, barnyard grass, giant and yellow foxtail, fall Panicum, wild proso millet, smooth and large crabgrass  Annual Broadleaves Stinkweed, redroot pigweed, wild mustard, Russian thistle, lamb's-quarters, non-Roundup Ready volunteer canola (rapeseed), hempnettle, lady's thumb, kochia, chickweed, corn spurry, wild tomato, cleavers, wild buckwheat, shepherd's purse, cow cockle, night-flowering catchfly, smartweed, stork's-bill, flixweed, narrow-leaved hawk's beard, smooth pigweed, cocklebur, Eastern black nightshade, velvetleaf, biennial wormwood¹.  Perennials (season-long control) Quackgrass, Canada thistle, and perennial sow thistle, foxtail barley, dandelion.	All weeds should be actively growing at time of application. <sup>1</sup> Biennial wormwood should be at 2-8 leaf stage.
3.33 single application	Emergence until 5 days prior to cutting	All the above weeds plus: Annual Broadleaves Round-leaved mallow	<sup>2</sup> 3.33 L/ha rate is for large, more established plants, heavy infestation or if plants are stressed.

Perennials (season-long control): Foxtail barley <sup>2</sup> , dandelion <sup>2</sup> , common milkweed <sup>3</sup> , field	<sup>3</sup> Common milkweed should be 15-60 cm in height.
bindweed, yellow nutsedge <sup>4</sup> , horsenettle <sup>5</sup> , tall waterhemp <sup>6</sup> , bur cucumber <sup>7</sup>	<sup>4</sup> Yellow nutsedge should be 5-15 cm in height.
	<sup>5</sup> Horse-nettle from the 2 to 12 leaf stage).
	<sup>6</sup> Tall waterhemp up to and including the 18-leaf stage.
	<sup>7</sup> Bur cucumber from the 1-18 leaf stage.

# HYBRID CORN SEED PRODUCTION USING THE RHS® SYSTEM WITH ROUNDUP READY 2 TECHNOLOGY

### **DO NOT** apply by air.

The RHS designation indicates that the corn contains technology that allows for tassel only susceptibility to this product. Use of this product on corn hybrids or inbreds that are not designated as RHS or as corn containing Roundup Ready<sup>®</sup> 2 Technology may result in severe crop injury and yield loss.

### **Tassel Control**

This product may be used as an over-the-top broadcast application for tassel control in RHS corn inbred recipient lines in seed production fields planted with corn containing Roundup Ready 2 Technology as the pollen donor.

USE INSTRUCTIONS: This product may be applied for tassel control up from the 8 to the 13 leaf stage before flowering at use rates from 1.67 to 2.34 L/ha per application. Up to two applications for tassel control are permitted.

### **Weed Control**

Refer Only to Section: "WEED CONTROL IN CORN VARIETIES WITH ROUNDUP READY 2 TECHNOLOGY AND MON 87419 FIELD CORN"

**Tank mixes:** See section "**TANK MIXTURES**" for use rates, timings and restrictions. Note that only those tank mixtures for which the tank mixture partner herbicide products are registered for use on seed (inbred) corn may be used for weed control on RHS corn inbred recipient lines and corn inbred donor lines containing Roundup Ready 2 Technology.

### PERENNIAL WEED CONTROL

ALWAYS READ "PRECAUTIONS", "GENERAL INFORMATION" AND "MIXING AND APPLICATION" SECTIONS 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.

# PERENNIAL WEED CONTROL WITH NCS SICARIO II 540 HERBICIDE

WEED	ED CONTROL W APP	LICATIO		COMMENTS
	GROWTH STAGE	RATE (L/ha)	WATER VOLUME (L/ha)	
Quackgrass (control, light to moderate infestations)	3 to 4 green leaves or more	1.67	50 - 300	<ul> <li>Apply in clean water using flat fan nozzles.</li> <li>Allow 3 or more days after treatment before tillage.</li> <li>Refer to "Quackgrass" notes under the "SPECIAL NOTES FOR PERENNIAL WEED CONTROL" section below for more information</li> <li>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 "Quackgrass" notes under the "SPECIAL NOTES FOR PERENNIAL WEED CONTROL" section below for a list of approved surfactants.</li> </ul>
Quackgrass (long term control, heavy infestations, high water volumes)	3 to 4 green leaves or more	1.67 – 4.67	50 - 300	<ul> <li>Allow 3 or more days after treatment before tillage.</li> <li>Rates higher than 1.67 L/ha will provide more consistent, longer term control, especially with heavier infestations and/or higher water volumes (i.e., 150 – 300 L/ha).</li> <li>Refer to "Quackgrass" notes under the "SPECIAL NOTES FOR PERENNIAL WEED CONTROL" section below for more information.</li> </ul>
Canada Thistle	Rosette stage (summerfallow)	1.67	50 - 100	<ul> <li>Apply in clean water using flat fan nozzles.</li> <li>Allow 10 or more days after treatment before tillage.</li> </ul>

Canada Thistle Field	Bud stage or beyond Full bloom or	3.17 – 4.67 4.67 -	100 - 300 100 - 300	<ul> <li>Refer to "Canada Thistle" notes under the "SPECIAL NOTES FOR PERENNIAL WEED CONTROL" section below for more information.</li> <li>Allow 5 or more days after treatment before tillage.</li> <li>Allow 7 or more days after</li> </ul>
Bindweed	beyond	8		treatment before tillage.
Common Milkweed*	Bud to full bloom (preharvest) Bud to full bloom	8	50 – 100 100 - 300	<ul> <li>See the "Preharvest Treatment" section for more information.</li> <li>Allow 7 or more days after treatment before tillage.</li> <li>Reduced control may occur after full bloom.</li> <li>Milkweed may not all be in the correct stage, therefore, repeat treatments may be required.</li> </ul>
Toadflax	Vegetative Stage (summerfallow)  Bud to full bloom (preharvest)	1.67	50 - 100	<ul> <li>Apply in clean water using flat fan nozzles.</li> <li>Allow 7 or more days after treatment before tillage in summerfallow.</li> <li>For more information, see "Toadflax Control" under the "SPECIAL NOTES FOR PERENNIAL WEED CONTROL" or "Preharvest Treatment" sections below</li> </ul>
Alfalfa	Early bud to full bloom stage Fall applications only	2.47 – 3.33	50 - 300	<ul> <li>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.</li> <li>For spring applications and control in minimum tillage systems using a 2,4-D tank mix, see the section "ALFALFA CONTROL WITH 2,4-D TANK MIX" under the "SPECIAL NOTES FOR PERENNIAL WEED CONTROL" section below.</li> </ul>

	1	1		1
Dandelion	< 15 cm > 15 cm Rosette to full bloom (preharvest)	1.67 2.47 – 3.33 1.67	50 – 100 50 – 300 50 - 100	<ul> <li>Allow 3 or more days after treatment before tillage for all rates.</li> <li>Use the higher rate when infestations are heavy.</li> <li>Refer to "Dandelion" notes below for more information.</li> <li>Allow 7 or more days after treatment before tillage. For more information, see the "PREHARVEST TREATMENT" section below.</li> </ul>
Foxtail Barley	Seeding to heading	1.67 – 3.33	50 - 100	<ul> <li>Allow a minimum of 1 day after treatment before tillage or seeding. SPECIAL NOTES FOR PERENNIAL WEED CONTROL</li> <li>Use higher rates for larger, more established plants, heavy infestations or if plants are stressed.</li> </ul>
Common reed	Apply when actively growing, or to regrowth after burning or mowing.	2.0 - 8.0	100-500	<ul> <li>For partial control and for best results, treat in late summer or early fall when plants are actively growing and in full bloom         Treatment before or after this stage may lead to reduced control. Due to the dense nature of the vegetation, which may prevent good spray coverage or uneven stages of growth, repeat treatments may be necessary to maintain control. Visual control symptoms will be slow to develop.</li> <li>For higher volumes (i.e, 150–300 L/ha) an approved surfactant should be added at 0.5 L per 100 L of clean water (0.5% v/v).</li> <li>DO NOT TREAT PLANTS OVER OPEN WATER. NCS Sicario II 540 Herbicide is not registered for direct application to bodies of water.</li> </ul>
Other Perennials (see listing in the "Perennial	Early heading or early bud stage	4.67 - 8	100 - 300	Allow 7 or more days after treatment before tillage.

Weeds"		
section)		

<sup>\*</sup>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/100m $^2$ , respectively).

### SPECIAL NOTES FOR PERENNIAL WEED CONTROL

### **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.

### SURFACTANT INFORMATION

The following is a list of approved surfactants for use with NCS Sicario II 540 Herbicide for control of quackgrass:

Agral 90 Companion Ag Surf

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

### **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 15<sup>th</sup> and August 1<sup>st</sup>.
- 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.

# NCS SICARIO II 540 HERBICIDE PLUS XTENDIMAX WITH VAPORGRIP TECHNOLOGY HERBICIDE TANK MIXTURES

For control of Canada thistle (and perennial sow thistle) in summerfallow or in postharvest stubble, apply 1.13 litres per hectare NCS Sicario II 540 Herbicide plus 1.71 litres per hectare XtendiMax with VaporGrip Technology Herbicide 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 damaging 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 1<sup>st</sup>, or if soil moisture levels are extremely low after application, crop injury may occur in the spring following application.

### **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 10<sup>th</sup> to July 21<sup>st</sup>.
- 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.

### **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.

### **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 NCS Sicario II 540 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 2,4D 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 NCS Sicario II 540 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 NCS Sicario II 540 Herbicide rates when perennial grasses are prevalent.

### **ALL PERENNIAL WEEDS**

**Weed Stages**: Weeds must be at the proper stage for effective control. Refer to the "PERENNIAL WEED CONTROL WITH NCS SICARIO II 540 HERBICIDE" section.

**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 previous "**Weed Control**" tables for specific tillage interval for each weed.

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

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

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

#### **CROPLAND SITUATIONS**

ALWAYS READ THE "PRECAUTIONS", "GENERAL INFORMATION" AND "MIXING AND APPLICATION" SECTIONS PRIOR TO SPECIFIC APPLICATION INFORMATION IN ANY LABEL SECTION. DO NOT APPLY BY AIR EXCEPT FOR THE "PREHARVEST AERIAL APPLICATION" SECTION.

### DO NOT APPLY BY AIR UNLESS SPECIFIED ON THIS LABEL

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, canary seed, 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 Roundup Ready® Corn 2,

soybeans or canola. It may be applied as a directed spray in orchards, vineyards, blueberries and strawberries, and using selective equipment in soybean 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 the "ANNUAL WEED CONTROL" and "PERENNIAL WEED CONTROL" sections for more information.

#### 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.

### PRIOR TO PLANTING - TANK MIXES\* - SOYBEANS

\*TANK MIXES – REFER TO THE RESPECTIVE PRODUCT LABELS WHEN TANK MIXING FOR USE RATES, CAUTIONS/WARNINGS, MIXING INSTRUCTIONS, RE-CROPPING RECOMMENDATIONS AND OTHER DETAILS.

WHERE TANK MIX PARTNER LABELS REFER ONLY TO OLDER (360 G/L) GLYPHOSATE PRODUCTS, E.G. ROUNDUP TRANSORB LIQUID HERBICIDE, ENSURE THAT THE LABEL RATE IS ADJUSTED TO COMPENSATE FOR THIS MORE CONCENTRATED PRODUCT.

## NCS Sicario II 540 Herbicide plus Pursuit Herbicide

NCS Sicario II 540 Herbicide plus Pursuit Herbicide can be applied prior to or after seeding, but before crop emergence. NCS Sicario II 540 Herbicide will control emerged weeds listed on this label when applied as directed (refer to the "Annual Weed Control" and "Perennial Weed Control" sections in the NCS Sicario II 540 Herbicide product label). Pursuit Herbicide will control weeds germinating from seed.

ONLY SOYBEANS, WHITE BEANS, KIDNEY BEANS, PROCESSING PEAS, FIELD CORN, SPRING BARLEY, SPRING WHEAT AND WINTER WHEAT MAY BE PLANTED THE SEASON FOLLOWING A PURSUIT HERBICIDE APPLICATION. WINTER WHEAT MAY BE PLANTED THE SAME YEAR AS A PURSUIT HERBICIDE APPLICATION TO SOYBEANS, BUT NOT EARLIER THAN 100 DAYS AFTER THE APPLICATION.

### DO NOT APPLY AFTER CROP EMERGENCE

# NCS Sicario II 540 Herbicide plus metribuzin (Sencor 75 DF Herbicide, Sencor 480 F Herbicide, , or Lexone DF Herbicide)

For burndown and residual control of selected annual weeds taller than 4 cm in soybeans, apply NCS Sicario II 540 Herbicide in tank mix with Sencor 75 DF Herbicide, , Sencor 480 F Herbicide, or Lexone DF Herbicide as a preplant surface or pre-emergence application before crop emergence.

NCS Sicario II 540 Herbicide plus Dual Magnum Herbicide or Dual II Magnum Herbicide For burndown and residual control of selected annual weeds in soybeans.

Apply NCS Sicario II 540 Herbicide in tank mix with Dual Magnum Herbicide or Dual II Magnum Herbicide at 1.15–1.75 L/ha as a preplant surface (up to 30 days before planting) or preemergence application before crop emergence.

Perennial weeds, such as quack grass may not be controlled with lower rates of NCS Sicario II 540 Herbicide. Use higher rates of NCS Sicario II 540 Herbicide if perennial weeds are present.

# NCS Sicario II 540 Herbicide plus Dual Magnum Herbicide or Dual II Magnum Herbicide plus metribuzin (Sencor 75DF Herbicide, Sencor 480 F Herbicide, or Lexone DF Herbicide)

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

Apply as a preplant surface (up to 30 days before planting) or pre-emergence application before crop emergence. Perennial weeds such as quackgrass may not be controlled with lower rates of NCS Sicario II 540 Herbicide.

### NCS Sicario II 540 Herbicide plus Frontier Herbicide

For burndown and residual control of selected annual weeds apply NCS Sicario II 540 Herbicide plus Frontier Herbicide preplant surface or pre-emergence.

# NCS Sicario II 540NCS Sicario II 540 Herbicide plus Axiom DF Herbicide

Preplant Surface:

For use in conservation tillage, minimum-tillage or no-tillage crop production systems, when weeds are present at the time of application, apply the Axiom DF Herbicide treatment in tank mixture with NCS Sicario II 540 Herbicide. Apply Axiom DF Herbicide in a minimum of 200 L/ha of total volume.

# Preemergence:

NCS Sicario II 540 Herbicide plus Axiom DF Herbicide may be applied to the soil surface as a broadcast spray after planting of the crop, but prior to weed or crop emergence.

### For conservation tillage systems:

Apply this tank mixture in a minimum of 200 L/ha of total volume.

### PRIOR TO PLANTING - TANK MIXES\* - CORN

\*TANK MIXES – REFER TO THE RESPECTIVE PRODUCT LABELS WHEN TANK MIXING FOR USE RATES, CAUTIONS/WARNINGS, MIXING INSTRUCTIONS, RE-CROPPING RECOMMENDATIONS AND OTHER DETAILS.

WHERE TANK MIX PARTNER LABELS REFER ONLY TO OLDER (360 G/L) GLYPHOSATE PRODUCTS, E.G. ROUNDUP TRANSORB LIQUID HERBICIDE, ENSURE THAT THE LABEL RATE IS ADJUSTED TO COMPENSATE FOR THIS MORE CONCENTRATED PRODUCT.

NCS Sicario II 540 Herbicide plus Dual Magnum Herbicide or Dual II Magnum Herbicide For burndown and residual control of selected annual weeds in corn. Apply NCS Sicario II 540 Herbicide in tank mix with Dual Magnum or Dual II Magnum at 1.25 to 1.75 L/ha as a preplant surface (up to 30 days before planting) or pre-emergence application before crop emergence. NOTE: The use on corn is for EASTERN CANADA ONLY.

Perennial weeds such as quack grass may not be controlled with lower rates of NCS Sicario II 540 Herbicide. Use higher rates of NCS Sicario II 540 Herbicide if perennial weeds are present.

# NCS Sicario II 540 Herbicide plus Dual Magnum Herbicide or Dual II Magnum Herbicide plus Aatrex Liquid 480 Herbicide

For burndown and residual control of selected annual weeds in corn. Apply NCS Sicario II 540 Herbicide in tank mix with Dual Magnum Herbicide or Dual II Magnum Herbicide at 1.25 – 1.75 L/ha plus Aatrex Liquid 480 Herbicide at 2.1 - 3.1 L/ha as a preplant surface (up to 30 days before planting) or pre-emergence application before crop emergence.

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

Perennial weeds, such as quackgrass may not be controlled with lower rates of NCS Sicario II 540 Herbicide. Use higher rates of NCS Sicario II 540 Herbicide if perennial weeds are present.

# NCS Sicario II 540 Herbicide plus Primextra II Magnum Herbicide

For burndown and residual control of selected annual weeds in corn apply NCS Sicario II 540 Herbicide plus Primextra II Magnum preplant surface or pre-emergence application before crop emergence. This tank mixture requires the use of a surfactant, either Agral 90 or Ag-Surf. See mixing instructions for more information.

Perennial weeds, such as quackgrass may not be controlled with lower rates of NCS Sicario II 540 Herbicide. Use higher rates of NCS Sicario II 540 Herbicide if perennial weeds are present.

### NCS Sicario II 540 Herbicide plus Frontier MAX Herbicide

For burndown and residual control of selected annual weeds apply NCS Sicario II 540 Herbicide plus Frontier MAX Herbicide as a preplant surface or pre-emergence application before crop emergence.

### NCS Sicario II 540 Herbicide plus Prowl herbicide

For burndown and residual control of selected annual weeds apply NCS Sicario II 540 Herbicide plus Prowl herbicide after seeding but before crop emergence.

# NCS Sicario II 540 Herbicide plus Converge Pro Herbicide or Converge 75 WDG Herbicide Surface Preplant:

Converge 75 WDG Herbicide can be applied to the soil surface up to 14 days prior to planting. Converge 75 WDG Herbicide must be tankmixed with Aatrex Liquid 480 Herbicide or Converge 480 Herbicide when applied as a surface preplant application. When weed growth is present at the time of application, NCS Sicario II 540 Herbicide can be added to the Converge Pro Herbicide or Converge 75 WDG Herbicide + Aatrex Liquid 480 Herbicide or Converge 480 Herbicide treatment for burndown control of these weeds. Do not incorporate.

## Preemergence:

Converge Pro Herbicide or Converge 75 WDG Herbicide can also be applied after planting to just prior to crop emergence. Aatrex Liquid 480 Herbicide or Converge 480 Herbicide and/or NCS Sicario II 540 Herbicide can be tank mixed with pre-emergent applications of Converge Pro Herbicide or Converge 75 WDG Herbicide.

Apply Converge Pro Herbicide at 165-220 mL per hectare, or Converge 75 WDG Herbicide at 105-140 g per hectare, tankmixed with NCS Sicario II 540 Herbicide at 1.67 L per hectare for burndown control of emerged weeds in all tillage management systems and improved control of established dandelion in zero-tillage management systems. A three-way tankmix of Converge Pro Herbicide or Converge 75 WDG Herbicide + Aatrex Liquid 480 Herbicide or Converge 480 Herbicide + NCS Sicario II 540 Herbicide can be used to provide residual control of the weeds listed above for this tank mix.

### NCS Sicario II 540 Herbicide plus Axiom DF Herbicide

### Preplant Surface:

For use in conservation tillage, minimum-tillage or no-tillage crop production systems, when weeds are present at the time of application, apply the Axiom DF Herbicide treatment in tank mixture with NCS Sicario II 540 Herbicide. Apply Axiom DF Herbicide in a minimum of 200 L/ha of total volume.

### Preemergence:

NCS Sicario II 540 Herbicide plus Axiom DF Herbicide may be applied to the soil surface as a broadcast spray after planting of the crop, but prior to weed or crop emergence.

### For conservation tillage systems:

Apply this tankmix in a minimum of 200 L/ha of total volume.

## 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.

### 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 on this label 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 NCS Sicario II 540 Herbicide in 100 litres of spray solution). Solutions of 0.67 and 1.34 percent should be applied to wet, but not run-off. Applications can be made using a boom sprayer, hose and handgun, or hand sprayer in accordance with instructions in the "**Application Equipment**" section.

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 NCS SICARIO II 540 HERBICIDE TO TRANSLOCATE INTO ALL PLANT PARTS BEFORE GRAZING OR HARVESTING TREATED AREAS IN FORAGES.

### 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. Refer to the "AERIAL APPLICATION FOR WEED CONTROL WITH NCS SICARIO II 540 HERBICIDE PRIOR TO SEEDING OR AFTER SEEDING PRIOR TO CROP EMERGENCE IN ALL CROPS AND IN SUMMERFALLOW – WET FIELD CONDITIONS ONLY" section for aerial application use.

# 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

NCS Sicario II 540 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 the "ANNUAL WEED CONTROL WITH NCS SICARIO II 540 HERBICIDE TANK MIXTURES" table for information.

NCS Sicario II 540 Herbicide plus bromoxynil (Pardner Herbicide) can be applied prior to seeding or after seeding, but before crop emergence in wheat, barley and oats. Refer to the "ANNUAL WEED CONTROL WITH NCS SICARIO II 540 HERBICIDE TANK MIXTURES" table for information.

NCS Sicario II 540 Herbicide plus Pursuit® Herbicide can be applied prior to, or after seeding, but before crop emergence in soybeans. NCS Sicario II 540 Herbicide will control emerged weeds listed on this label when applied as directed (refer to the "ANNUAL WEED CONTROL" and "PERENNIAL WEED CONTROL" sections). Pursuit Herbicide 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 HERBICIDE 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 HERBICIDE APPLICATION. WINTER WHEAT MAY BE PLANTED THE SAME YEAR AS A PURSUIT HERBICIDE APPLICATION TO SOYBEANS, BUT NOT EARLIER THAN 120 DAYS AFTER THE APPLICATION.

### DO NOT APPLY AFTER CROP EMERGENCE.

NCS Sicario II 540 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 the "ANNUAL WEED CONTROL WITH NCS SICARIO II 540 HERBICIDE TANK MIXTURES" table for information.

NCS Sicario II 540 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 the "ANNUAL WEED CONTROL WITH NCS SICARIO II 540 HERBICIDE TANK MIXTURES" table for information.

NCS Sicario II 540 Herbicide plus MCPA amine can be applied prior to seeding in lentil and chickpea. Refer to the "ANNUAL WEED CONTROL WITH NCS SICARIO II 540 HERBICIDE TANK MIXTURES" table for information.

NCS Sicario II 540 Herbicide plus Express Toss-N-Go Herbicide Or Express Toss-N-Go® Dry Flowable 75% Herbicide in pre-seed situations, wheat and barley may be seeded after a minimum of 24 hours after application. Refer to the "ANNUAL WEED CONTROL WITH NCS SICARIO II 540 HERBICIDE TANK MIXTURES" table for information.

ALWAYS REFER TO THE EXPRESS® TOSS-N-GO HERBICIDE OR EXPRESS TOSS-N-GO DRY FLOWABLE 75% HERBICIDE LABEL FOR FURTHER INFORMATION ON APPLICATION DIRECTIONS, TANK MIXING, AND USE PRECAUTIONS.

NCS Sicario II 540 Herbicide plus XtendiMAX with VaporGrip Technology Herbicide can be applied prior to seeding in wheat, barley, rye, oats and field corn only (do not apply prior to seeding sweet corn). Refer to "Annual Weed Control with NCS Sicario II 540 Herbicide Tank Mixtures" table for information.

# NOTE TO USER: READ THE FOLLOWING BEFORE USING THIS PRODUCT FOR THE INDICATED SPECIAL USE APPLICATIONS:

The DIRECTIONS FOR USE for the uses described in this section of the label were developed by persons other than Northern Cropscience Inc. under the User Requested Minor Use Label Expansion program. For these uses, Northern Cropscience Inc. has not fully assessed performance (efficacy) and/or crop tolerance (phytotoxicity) under all environmental conditions or for all crop varieties when used in accordance with the label. The user should test the product on a small area first, under local conditions and using standard practices, to confirm the product is suitable for widespread applications.

For sale for use in the Prairie Provinces and interior of British Columbia (Including the Peace River Region) Only.

NCS Sicario II 540 Herbicide plus HEAT WG can be applied prior to seeding brome grass (seed production & forage use). Refer to "Annual Weed Control with NCS Sicario II 540 Herbicide" table for weed control information and to Section 9.3 of the HEAT WG label.

Apply 0.83-1.67 L/ha of NCS Sicario II 540 Herbicide plus 26-71 g/ha of HEAT WG. Add MERGE Adjuvant, MSO Concentrate or Amigo at a rate of 0.5 – 1 L/ha.

Always refer to the tank mix partner herbicide label for precautions, use instructions and crop rotation restrictions. Do not apply tank mix combinations by air.

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

### **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.

### **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.

### 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.

#### 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, NCS Sicario II 540 Herbicide can be applied prior to harvest of wheat, barley (including malting barley), oats, canola (rapeseed) (including Roundup Ready® varieties), flax (including low linolenic acid varieties), lentils, peas, dry beans, soybeans (including Roundup Ready® 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 Roundup Ready® varieties of canola and soybean provides weed control only.

NCS Sicario II 540 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**" 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.

# **DO NOT** apply by air.

## **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 Roundup Ready® 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 Roundup Ready® 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.

# NOTE TO USER: READ THE FOLLOWING BEFORE USING THIS PRODUCT FOR THE INDICATED SPECIAL USE APPLICATIONS:

The DIRECTIONS FOR USE for the uses described in this section of the label were developed by persons other than Northern Cropscience Inc. under the User Requested Minor Use Label Expansion program. For these uses, Northern Cropscience Inc. has not fully assessed performance (efficacy) and/or crop tolerance (phytotoxicity) under all environmental conditions or for all crop varieties when used in accordance with the label. The user should test the product on a small area first, under local conditions and using standard practices, to confirm the product is suitable for widespread applications.

### **DIRECTIONS FOR USE:**

# Preharvest Treatment of Chickpea, Dried Lupin, Dried Fava Bean, Mustard, Pearl Millet, Grain Sorghum, Canary Seed and Camelina.

For control of quackgrass, Canada thistle, common milkweed, toadflax and dandelion; and season-long control of perennial sow thistle and harvest management, NCS Sicario II 540 Herbicide can be applied prior to harvest of chickpea, dried lupin, dried fava bean, mustard, pearl millet, grain sorghum, canary seed and camelina. DO NOT apply to crops if grown for seed production.

NCS Sicario II 540 Herbicide should be applied as a single preharvest application at 1.67 litres per hectare in 50 to 100 litres per hectare (100 L/ha for dense vegetative cover) 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 further information see guidelines above. The Pre-harvest interval is 7 days.

### **GUIDELINES FOR TIMING OF PREHARVEST APPLICATIONS**

CROP(S)	PERCENT GRAIN MOISTURE	VISUAL SYMPTOMS
Chickpea	Less than 30	Stems are green to brown in colour;
Dried Lupin		pods are mature (yellow to brown in
Dried Fava Bean		colour); 80-90% leaf drop (original leaves)
Mustard	Less than 30	Pods are green to yellow; most
(Yellow/White, Brown,		seeds are yellow to brown.
Oriental)		
Pearl Millet	Less than 30	Kernels will be hard & a black layer opposite the embryo at the base of
		the kernel will be present
Grain Sorghum	Less than 30	Kernels will have a black-layer
(not for use as a		immediately above the point of
forage crop)		kernel attachment in the floret near
		the base of the kernel
Camelina	Less than 30	When 95% of pods have changed colour, seed is firm and less than 40% of seed is green
Canary Seed	Less than 30	Hard dough stage; a thumbnail impression remains on seed.
NOTE:		

Pearl millet grain is to be harvested for use as animal feed only. DO NOT GRAZE treated pearl millet forage or cut for hay.

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

NCS SICARIO II 540 HERBICIDE TANK MIX WITH: HEAT LQ (SAFLUFENACIL) AS A HARVEST AID FOR CHICKPEAS.

For sale for use in the Prairie Provinces and interior of British Columbia (Including the Peace River Region) ONLY.

NCS Sicario II 540 Herbicide should be applied as a single preharvest application at 1.67 litres per hectare plus 73-146 mL/ha of HEAT LQ. Add MERGE Adjuvant at a rate of 0.5 L/ha in 200 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 further information see guidelines above. The Preharvest interval is 7 days. **DO NOT apply to crops if grown for seed production.** 

For the Desi type, apply at the time swathing would normally commence, when the majority of plants are yellow and most pods are mature and seeds have turned from green to yellow or brown. Upper part of plant may still be green.

For the Kabuli type, apply when the majority of plants and pods are ripe and dry with seeds turned from green to white or tan, and detached from the pods. Dry down is less complete in Kabuli type due to its thick pod wall.

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

### PREHARVEST AERIAL APPLICATION

Refer to the general guidelines for aerial application in the "Mixing and Application Equipment" and "Spray Buffer Zones" sections as well as specific instructions in this section.

### **RESTRICTED USE**

AERIAL PREHARVEST APPLICATION PRAIRIE PROVINCES AND INTERIOR OF BRITISH COLUMBIA (INCLUDING THE PEACE RIVER REGION) ONLY

**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.

**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 glyphosate herbicide aerial application training course provided by Northern Cropscience 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 general directions and precautions concerning aerial application in the "Mixing and Application Equipment" and "Spray Buffer Zones" sections.

#### **DIRECTIONS FOR USE**

NCS Sicario II 540 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. NCS Sicario II 540 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 use on forages. **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.

NCS Sicario II 540 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" 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.

### **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 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 the "Mixing and Application Equipment Information" section 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 VINE, BERRY AND OTHER CROPS

CROP	RATE (L/ha)	PRE- HARVEST INTERVAL (days)	MAX. APPL. PER YEAR	WEEDS CONTROLLED	COMMENTS (Refer to "Annual Weed Control" and "Perennial Weed Control" sections specific rates)
Apples, Apricot, Cherry (sweet/sour), Peaches, Nectarines, Pears, Plums	1.5 - 8	30	3	Annual and perennial weeds	
Apples, Grapes	Tank Mix 1.5 – 8 +	-	1	Annual and perennial weeds	Will provide season- long preemergent control.

	Simazine 2.0 – 4.5 kg ai/ha				<ul> <li>Do not apply to coarse, sandy or gravelly soil.</li> <li>Use according to the more restrictive label direction for each product in the mix.</li> <li>DO NOT apply to orchards or vineyards that have been established less than 1 or 3 years, respectively.</li> <li>Simazine rate is equivalent to 2.25 – 5.0 kg/ha Princep® Nine-T® Herbicide, or 4.0 – 9.0 L/ha Simadex® Simazine Flowable</li> </ul>
Grapes	1.5 - 8	14	3	Annual and perennial weeds.	<ul> <li>Remove all sucker growth from the spray zone before spraying, except for the Concord variety of grape.</li> <li>Suckering should be conducted within 2 weeks prior to application.</li> <li>Do not apply to vines which have been established less than 3 years.</li> </ul>
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 (refer to the "Woody Brush and Trees" section for more information)	<ul> <li>Apply as a directed spray in mid-summer of the vegetative (nonbearing) year.</li> <li>See the "Spot Treatment (In-Crop)" section for instructions on spot treatments.</li> </ul>
Filberts, Hazelnut (established plantations)	1.5 – 2.33	14	-	Annual Weeds	Use as a directed spray, with no more than 275 kPa pressure.
Walnut, Chestnut,	1.5 - 8	-	2	Annual and perennial weeds	Apply late spring and fall, postharvest but prior to a damaging frost.

Japanese Heartnut					<ul> <li>Apply in 200 – 300 L water as a directed spray, using no more than 275 kPa pressure.</li> <li>Apply alternatively as a 1.34% wiper solution (see the "Wiper Applicators" section below).</li> </ul>
Cranberry	13.4% solution (0.62 L NCS Sicario II 540 Herbicide + 4L water)	30	1	Annual and perennial weeds	Apply using wick or wiper applicators (see the "Wiper Applicators" section below).
Strawberry	0.67 – 1.34% solution (spot application) 22% solution (wiper application)	30	1	Emerged perennial weeds	<ul> <li>Apply when weeds are at a susceptible growth stage</li> <li>See the "Spot Treatment (In-Crop)" section for instructions on spot treatments.</li> <li>See the "Wiper Applicators" section below for instructions on wiper applications.</li> </ul>
Sugar Beets	0.67 – 1.34% solution (spot application)	Treated crop MUST NOT be harvested	1	Dodder species	<ul> <li>Apply when dodder is vigorously growing but before flowering.</li> <li>See the "Spot Treatment (In-Crop)" section for instructions on spot treatments.</li> </ul>
Asparagus	0.83 – 1.67	7	1	Fall seeded ryegrass	Apply in spring before emergence of crop shoots.

# NOTE TO USER: READ THE FOLLOWING BEFORE USING THIS PRODUCT FOR THE INDICATED SPECIAL USE APPLICATIONS:

The DIRECTIONS FOR USE for the uses described in this section of the label were developed by persons other than Northern CropScience Inc. under the User Requested Minor Use Label Expansion program. For these uses, Northern CropScience Inc. has not fully assessed performance (efficacy) and/or crop tolerance (phytotoxicity) under all environmental conditions or for all crop varieties when used in accordance with the label. The user should test the product on

a small area first, under local conditions and using standard practices, to confirm the product is suitable for widespread applications

**DIRECTIONS FOR USE: For use in Eastern Canada only** 

# Late Fall Broadcast Treatment of Newly Established Lowbush Blueberry Fields

For suppression of Lambkill (Sheep Laurel, *Kalmia angustifolia*) in newly cleared lowbush blueberry, apply NCS Sicario II 540 Herbicide in the fall after 95 percent blueberry leaf drop, typically late October or November. Do not apply NCS Sicario II 540 Herbicide before one or two heavy, damaging fall frosts have occurred. Lambkill plants should have at least 50 percent green leaf colour at the time of application.

Apply NCS Sicario II 540 Herbicide at 1.67 litres per hectare in 200-300 litres per hectare of clean water using a boom applicator. Do not add adjuvant to the spray mixture. Treat only areas of the field which have lambkill present. Apply NCS Sicario II 540 Herbicide before pruning lowbush blueberry plants and do not prune for at least 14 days after application. All fields treated with NCS Sicario II 540 Herbicide must be pruned post treatment in the fall or the following spring before May 15<sup>th</sup>. Pre-harvest interval is 550 days.

Use of fertilizers or fungicides for suppression of leaf diseases have been shown to delay leaf drop and blueberry plant dormancy. Do not apply NCS Sicario II 540 Herbicide if 95 percent leaf drop has not occurred. Applications should not be made in consecutive years within the same treatment area. See "**Mixing and Application Equipment Information**" for additional information.

EXTREME CARE MUST BE EXERCISED TO AVOID CONTACT OF HERBICIDE SOLUTION, SPRAY DRIFT, OR MIST WITH NON-DORMANT FOLIAGE OR GREEN BARK OF LOWBUSH BLUEBERRY STEMS. CONTACT OF THIS PRODUCT WITH OTHER THAN DORMANT PLANTS CAN RESULT IN SERIOUS CROP DAMAGE.

CROP	RATE (L/ha)	PREHARVEST INTERVAL (days)	MAX. APPL. PER YEAR	WEEDS SUPPRESSED	COMMENTS
Lowbush blueberry	1.67	550	1	Lambkill/ Sheep Laurel	Apply in the late fall after 95% leaf drop (Late October/November). Do not apply within 550 days of harvest. Treated areas must be pruned after treatment.

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

The DIRECTIONS FOR USE for the uses described in this section of the label were developed by persons other than Northern CropScience Inc. under the User Requested Minor Use Label Expansion program. For these uses, Northern CropScience Inc. has not fully assessed

performance (efficacy) and/or crop tolerance (phytotoxicity) under all environmental conditions or for all crop varieties when used in accordance with the label. The user should test the product on a small area first, under local conditions and using standard practices, to confirm the product is suitable for widespread applications.

### **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.

### SELECTIVE EQUIPMENT

### WIPER APPLICATORS

This product may be applied with a wiper applicator, after dilution and thorough mixing with water, to listed weeds in soybean and dry beans, grapes, orchards, cranberries, lowbush blueberries and strawberries. Applications must be made before initial pod set in soybean and dry beans. 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 in the "Annual Weed Control" and "Perennial Weed Control" sections 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 ensure 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.

AERIAL APPLICATION FOR WEED CONTROL WITH NCS SICARIO II 540 HERBICIDE PRIOR TO SEEDING OR AFTER SEEDING PRIOR TO CROP EMERGENCE IN ALL CROPS AND IN SUMMERFALLOW – WET FIELD CONDITIONS ONLY

Refer to the general guidelines for aerial application in "Mixing and Application" and "Spray Buffer Zones" sections.

### RESTRICTED USE

AERIAL APPLICATION FOR WEED CONTROL PRIOR TO SEEDING ALL CROPS AND IN SUMMERFALLOW

PRAIRIE PROVINCES AND INTERIOR OF BRITISH COLUMBIA (INCLUDING THE PEACE RIVER REGION) ONLY

**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 glyphosate herbicide aerial application training course provided by Northern Cropscience 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.

This product may be applied with aerial equipment <u>only</u> if ground equipment cannot be used due to flooded field conditions.

NCS Sicario II 540 Herbicide may be applied with aerial application equipment for control of certain annual grass and broadleaf weeds and the suppression or season long control of certain perennial weeds.

# EXTREME CARE MUST BE TAKEN WHEN APPLYING THIS PRODUCT TO PREVENT INJURY TO DESIRABLE PLANTS AND CROPS.

**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.

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.

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 target 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 spray buffer zones should be observed.

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

### **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 Northern Cropscience Inc. at 1-437-880-8283 or obtain technical advice from the distributor or your provincial agricultural representative.

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

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

Spray Buffer Zones: Refer to "Spray Buffer Zones" section for required spray buffer zones.

#### **DIRECTIONS FOR USE**

THIS USE IS LIMITED TO SITUATIONS WHERE FIELD CONDITIONS ARE EXTREMELY WET SUCH THAT GROUND SPRAYERS (TRACTOR & FIELD SPRAYER, HIGH CLEARANCE SPRAYERS OR ANY KIND OF GROUND SPRAYER) CANNOT TRAVEL ACROSS THE FIELD TO MAKE EFFECTIVE WEED CONTROL APPLICATIONS.

DO NOT TANK MIX NCS SICARIO II 540 HERBICIDE WITH ANY OTHER PRODUCT WHEN APPLIED BY AERIAL APPLICATION.

Apply at appropriate weed stages. Consult the "Weed Control" tables in the "Annual Weed Control" and "Perennial Weed Control" sections for weeds, stages and rates.

For the best weed control results weeds should be actively growing.

Wet conditions can stress weeds and slow plant growth, therefore it is recommended to use the highest labelled rate for target weeds.

### **Prior to Seeding All Crops**

NCS Sicario II 540 Herbicide may be applied with aerial application equipment for control of annual weeds (see the "Annual Weed Control with NCS Sicario II 540 Herbicide") section prior to seeding all crops. Apply 0.5-1.67 L/ha of NCS Sicario II 540 Herbicide.

#### Summerfallow

NCS Sicario II 540 Herbicide may be applied at 1.67-4.0 L/ha with aerial application equipment for control of annual weeds and perennial weeds in summerfallow situations. Consult the "Weed Control" tables in the "Annual Weed Control" and "Perennial Weed Control" sections for weeds, stages and rates.

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