This label has been updated according to the re-evaluation decision for Quizalofop-p-ethyl RVD2024-03. While users are encouraged to follow this updated label immediately, the previously approved label is valid until 23-02-2026 in accordance with the phase out period set out in the re-evaluation decision for Quizalofop-p-ethyl RVD2024-03. This previously approved label will be provided upon request by emailing hc.pmra.info-arla.sc@canada.ca. In your email please include the product name and Registration number of the label you are requesting.

GROUP 1 HERBICIDE

## MARSHALL UNPACKED

## **EMULSIFIABLE CONCENTRATE**

(jug label)

FOR SALE FOR USE ON CAMELINA, CANOLA, FLAX (INCLUDING LOW LINOLENIC ACID VARIETIES), SUNFLOWERS, SOYBEANS (INCLUDING VARIETIES DESIGNATED "STS®"), SEED ALFALFA, LENTILS, PEAS (FIELD AND PROCESSING), SEEDLING LEGUMES FOR SEED PRODUCTION, SEEDLING OR ESTABLISHED CREEPING RED FESCUE FOR SEED PRODUCTION, DRY FABA BEANS (DRY BROAD BEANS), AND NARROW LEAF LUPIN, ESTABLISHED RED AND ALSIKE CLOVER FOR SEED PRODUCTION, SUGARBEATS, AND SNAP BEANS; DRY COMMON BEANS; FOR USE IN WESTERN CANADA ON CHICKPEAS; CONDIMENT AND OILSEED TYPE ORIENTAL MUSTARD (INCLUDING CANOLA QUALITY BRASSICA JUNCEA); SASKATOON BERRIES, CROP GROUP 11-09 (POME FRUIT), CROP GROUP 12-09 (STONE FRUIT), CROP SUBGROUP 13-07F SMALL FRUITS CLIMING VINE EXCEPT FUZZY KIWI FRUIT, YELLOW AND BROWN MUSTARD; CRAMBE; ETHIOPIAN MUSTARD (BRASSICA CARINATA), THE FOLLOWING BEANS IN SOUTHERN ONTARIO (LIMA, ADZUKI AND MUNG BEANS); RUTABAGAS IN ONTARIO AND QUEBEC; AND ON INDUSTRIAL HEMP GROWN FOR FIBRE, SEED AND OIL PRODUCTION AND CUCURBIT VEGETABLES IN CANADA.

COMMERICAL (AGRICULTURAL)

READ THE LABEL AND ATTACHED BOOKLET BEFORE USING

ACTIVE INGREDIENT: Quizalofop-P-ethyl 96 g/L
REGISTRATION NO. 33681 PEST CONTROL PRODUCTS ACT
DANGER – CORROSIVE TO EYES
SKIN IRRITANT POTENTIAL SKIN SENSITIZER

NET CONTENTS: 1 L to 1500 L

Nissan Chemical Corporation c/o Nissan Chemical America Corporation 10333 Richmond Avenue, Suite 1100, Houston TX 77042

Distributed by: Winfield United Canada, ULC 101-302 Wellman Lane Saskatoon, Saskatchewan Canada S7T 0J1 1-888-975-4769

For Medical Emergencies: 1-888-478-0798 (24 hours) For Spills, Leaks or Fire: 1-800-424-9300 (24 hours)

#### PRECAUTIONS:

- KEEP OUT OF REACH OF CHILDREN
- DANGER CORROSIVE TO EYES
- WARNING SKIN IRRITANT
- POTENTIAL SKIN SENSITIZER
- May be harmful if swallowed, inhaled or absorbed through skin. Causes eye irritation.
- Do not get in eyes or on clothing. Avoid contact with skin. Avoid breathing vapours or spray mist. Use adequate ventilation.
- When using, do not eat, drink or smoke. Wash skin thoroughly with soap and water after handling.
- Apply only to agricultural crops when the potential for drift to areas of human habitation and areas
  of human activity such as houses, cottages, school and recreational areas is minimal. Take into
  consideration wind speed, wind direction, temperature inversions, application equipment and
  sprayer settings.
- DO NOT enter or allow worker entry into treated areas during the restricted entry interval (REI) of 4
  days following application for scouting activities in *Camelina*. For all other crops, DO NOT enter or
  allow worker entry into treated area during the restricted-entry interval (REI) of 12 hours.

## PERSONAL PROTECTIVE EQUIPMENT

- Wear coveralls over 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.
- Remove contaminated clothing immediately after use. Store and wash contaminated clothing separately from household laundry before reuse.

#### **ENVIRONMENTAL PRECAUTIONS:**

TOXIC to aquatic organisms and non-target terrestrial plants. Observe spray buffer zones specified under DIRECTIONS FOR USE.

This product contains an active ingredient and aromatic petroleum distillates, which are TOXIC to aquatic organisms.

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.

Additional guidance can be found on the Runoff Mitigation portion of the Canada.ca website.

#### FIRST AID:

**IF SWALLOWED**: Call a poison control centre or doctor immediately for treatment advice. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give any liquid to the person.

Do not give anything by mouth to an unconscious person.

**IF 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 the product name and Pest Control Product Registration number with you when seeking medical attention.

TOXICOLOGICAL INFORMATION: THIS PRODUCT CONTAINS PETROLEUM DISTILLATES.

Vomiting may cause aspiration pneumonia. Treat symptomatically.

#### STORAGE:

Store this product away from food or feed. Store product in original container only, away from fertilizer or seed. Not for use or storage in or around the home. Keep container closed. DO NOT FREEZE.

#### **DISPOSAL:**

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 or territorial requirements.

For information on disposal of unused, unwanted product, contact the registrant or the provincial or territorial regulatory agency. Contact the registrant and the provincial or territorial regulatory agency in case of a spill, and for 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.

GROUP 1 HERBICIDE

## MARSHALL UNPACKED

#### **EMULSIFIABLE CONCENTRATE**

FOR SALE FOR USE ON CAMELINA, CANOLA, FLAX (INCLUDING LOW LINOLENIC ACID VARIETIES), SUNFLOWERS, SOYBEANS (INCLUDING VARIETIES DESIGNATED "STS®"), SEED ALFALFA, LENTILS, PEAS (FIELD AND PROCESSING), SEEDLING LEGUMES FOR SEED PRODUCTION, SEEDLING OR ESTABLISHED CREEPING RED FESCUE FOR SEED PRODUCTION, DRY FABA BEANS (DRY BROAD BEANS), AND NARROW LEAF LUPIN, ESTABLISHED RED AND ALSIKE CLOVER FOR SEED PRODUCTION, SUGARBEATS, AND SNAP BEANS; DRY COMMON BEANS; FOR USE IN WESTERN CANADA ON CHICKPEAS; CONDIMENT AND OILSEED TYPE ORIENTAL MUSTARD (INCLUDING CANOLA QUALITY BRASSICA JUNCEA); SASKATOON BERRIES, CROP GROUP 11-09 (POME FRUIT), CROP GROUP 12-09 (STONE FRUIT), CROP SUBGROUP 13-07F SMALL FRUITS CLIMING VINE EXCEPT FUZZY KIWI FRUIT, YELLOW AND BROWN MUSTARD; CRAMBE; ETHIOPIAN MUSTARD (BRASSICA CARINATA), THE FOLLOWING BEANS IN SOUTHERN ONTARIO (LIMA, ADZUKI AND MUNG BEANS); RUTABAGAS IN ONTARIO AND QUEBEC; AND ON INDUSTRIAL HEMP GROWN FOR FIBRE, SEED AND OIL PRODUCTION AND CUCURBIT VEGETABLES IN CANADA.

COMMERCIAL (AGRICULTURAL)

REGISTRATION NO. 33681 PEST CONTROL PRODUCTS ACT

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

DANGER – CORROSIVE TO EYES SKIN IRRITANT POTENTIAL SKIN SENSITIZER

NET CONTENTS: 1 TO 1500 L

Nissan Chemical Corporation c/o Nissan Chemical America Corporation 10333 Richmond Avenue, Suite 1100, Houston TX 77042

Distributed by: Winfield United Canada, ULC 101-302 Wellman Lane Saskatoon, Saskatchewan Canada S7T 0J1 1-888-975-4769

For Medical Emergencies: 1-888-478-0798(24 hours) For Spills, Leaks or Fire: 1-800-424-9300 (24 hours)

#### PRECAUTIONS:

- KEEP OUT OF REACH OF CHILDREN
- DANGER CORROSIVE TO EYES
- WARNING SKIN IRRITANT
- POTENTIAL SKIN SENSITIZER
- May be harmful if swallowed, inhaled or absorbed through skin. Causes eye irritation.
- Do not get in eyes or on clothing. Avoid contact with skin. Avoid breathing vapours or spray mist. Use adequate ventilation.
- When using, do not eat, drink or smoke. Wash skin thoroughly with soap and water after handling.
- Apply only to agricultural crops when the potential for drift to areas of human habitation and human activity, such as houses, cottages, schools and recreational areas is minimal. Take into consideration wind speed, wind direction, temperature inversions, application equipment, and sprayer settings.
- DO NOT enter or allow worker entry into treated areas during the restricted entry interval (REI) of 4
  days following application for scouting activities in Camelina. For all other crops, DO NOT enter or
  allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours.

#### PERSONAL PROTECTIVE EQUIPMENT

- Wear coveralls over 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.
- Remove contaminated clothing immediately after use. Store and wash contaminated clothing separately from household laundry before reuse.

#### FIRST AID:

#### IF SWALLOWED:

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

## IF 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 the product name and Pest Control Product Registration number with you when seeking medical attention.

#### TOXICOLOGICAL INFORMATION:

THIS PRODUCT CONTAINS PETROLEUM

DISTILLATES. Vomiting may cause aspiration pneumonia. Treat symptomatically.

## **USE PRECAUTIONS**

#### **IMPORTANT**

Injury to or loss of desirable trees or vegetation may result from failure to observe the following:

- Do not apply, drain or flush equipment on or near desirable trees or plants, or on areas where their roots may extend, or in locations where the chemical may be washed or moved into contact with their roots.
- Do not use on lawns, walks, driveways, tennis courts, or similar areas.

Prevent drift of spray to desirable plants.

Use caution when handling MARSHALL UNPACKED as accidental spills or splashes may harm the finish on painted equipment.

#### **ENVIRONMENTAL PRECAUTIONS:**

TOXIC to aquatic organisms and non-target terrestrial plants. Observe spray buffer zones specified under DIRECTIONS FOR USE.

This product contains an active ingredient and aromatic petroleum distillates, which are TOXIC to aquatic organisms.

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.

Additional guidance can be found on the Runoff Mitigation portion of the Canada.ca website.

#### **USER PRECAUTIONS:**

- Do not apply to soybeans within 80 days of harvest.
- Do not apply to canola within 64 days of harvest.
- Do not apply to flax within 82 days of harvest.
- Do not apply to sunflowers within 60 days of harvest.
- Do not apply to lentils or peas (field and processing) within 65 days of harvest.
- Do not apply to industrial hemp grown for fibre, seed and oil within 73 days of harvest.
- Do not apply MARSHALL UNPACKED to plants stressed by severe conditions such as drought, low fertility, or cool weather as control of weeds may be reduced.
- Do not apply MARSHALL UNPACKED to crops stressed by severe conditions such as drought, low fertility, saline soils, water logged soils (soils at or near field capacity), disease or insect damage as crop injury may result.
- Drought, disease or insect damage following application may also result in crop injury.
- Rainfall within 1 hour of application may reduce effectiveness of the spray.
- Avoid drift to other crops and non-target areas. Grass crops such as corn and wheat etc. are highly sensitive to MARSHALL UNPACKED.
- DO NOT FREEZE

## **CAUTION:**

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

#### **GENERAL INFORMATION**

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.

MARSHALL UNPACKED is a selective, post-emergence herbicide for the control of annual and perennial grasses in the following crops:

- Camelina
- Canola
- Flax, (including low linolenic acid varieties)
- Sunflowers
- Soybeans (including varieties designated "STS<sup>®</sup>")
- Seed Alfalfa
- Lentils
- Peas (field and processing)
- Seedling legumes for seed production
- Seedling or established creeping red fescue for seed production
- Dry faba beans (dry broad beans)
- Narrowleaf lupin
- Established red and alsike clove for seed production
- Sugarbeets
- Snap Beans
- Dry Common Beans
- Chickpeas (western Canada only)
- Condiment and oilseed type Oriental Mustard (including Brassica Juncea), Yellow and brown mustard and Crambe
- Ethiopian mustard (brassica carinata)
- Lima, adzuki and Mung Beans (southern Ontarioonly)
- Rutabagas (Ontario and Quebec only)
- Industrial Hemp grown for fibre, seed and oil production
- Cucurbit vegetables

Recommended rates and timing for MARSHALL UNPACKED application will provide control of the emerged grasses present. MARSHALL UNPACKED does not control sedges or broadleaf weeds.

Grass crops, including wheat, barley, rye, oats, and corn are highly sensitive to MARSHALL UNPACKED.

When not in use, keep container closed to prevent evaporation or loss through spillage.

Under certain environmental conditions, minor leaf spotting may occur on soybeans. New growth is unaffected and there is no adverse effect on cropyield.

#### MODE OF ACTION

MARSHALL UNPACKED is a systemic herbicide which is rapidly absorbed and readily translocated from the treated foliage to the root systems and growing points of the plant.

Treated plants show a reduction in growth and a loss of competitiveness. An early yellowing or browning of the younger plant tissues is followed by a progressive collapse of the remaining foliage. These symptoms will generally be observed in one to three weeks depending on the grass species treated and the environmental conditions.

## **MIXING INSTRUCTIONS:**

- 1. Make sure that spray tank is thoroughly cleaned before mixing.
- 2. Fill tank half full with water. KEEP AGITATOR RUNNING.
- 3. If tank mixing MARSHALL UNPACKED with another pesticide and/or adjuvant, use the following sequence:
  - a) Water conditioning agents b) Wettable Powders (WP)

- c) Dry Granules (WDG)d) Suspension Concentrates (SC) or Flowables

- e) Emulsifiable concentrates (EC) or oil based products (MARSHALL UNPACKED)
- f) Surfactants (NIS, COC, MSO)

Ensure that the herbicide is completely mixed before proceeding to the next step.

4. Add the rest of the required water to the tank. Mix well before applying to the crop.

On repeat tank loads, ensure that the amount of spray solution left in the tank from the previous load is less than 10% of volume about to be mixed.

Do not mix, load or clean spray equipment where there is a potential to contaminate wells or aquatic systems.

## RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, MARSHALL UNPACKED is a Group 1 herbicide. Any weed population may contain or develop plants naturally resistant to MARSHALL UNPACKED and other Group 1 herbicides. The resistance 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 YUMA GL Liquid Herbicide or other Group 1 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 (weedcompetitive 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 your local representative at1-888-975-4769.

## **DIRECTIONS FOR USE**

**Field sprayer application: DO NOT** apply when wind speed is less than 1 km/h. Avoid application of this product when winds are gusty. **DO NOT** apply with sprays finer than the American Society of Agricultural and Biological Engineers (ASABE) S572 (572.1 to 572.3) medium classification. Boom height must be 60 cm or less above the crop or ground.

**GROUND APPLICATION**: (For MARSHALL UNPACKED used alone or in tank mixes)

Use a properly calibrated sprayer that will provide thorough coverage of the weeds with the spray. Apply a minimum of 100 L/ha total spray volume. Use flat fan nozzles. DO NOT USE FLOOD JET NOZZLES.

Use 50 mesh screens or larger. A spray pressure of 210-275 kPa is recommended. Under heavy weed pressure, use increased volumes up to 400 L/ha total spray volume.

Avoid overlapping. Shut off spray booms while starting, turning, slowing or stopping to prevent over application.

Use spray preparation of MARSHALL UNPACKED within 24 hours or product degradation may occur. If spray preparation is left without agitation, thoroughly agitate before using.

Conventionally piloted aircraft <u>application</u> (Only for MARSHALL UNPACKED used alone): DO NOT apply when wind speed is less than 1 km/h. Avoid application of this product when winds are gusty. DO NOT apply when the wind speed is greater than 16 km/h at flying height at the site of application. DO NOT apply with sprays finer than the American Society of Agricultural and Biological Engineers (ASABE) S572 (572.1 to 572.3) medium classification. Reduce drift caused by turbulent wingtip vortices. Nozzle distribution along the spray boom length MUST NOT exceed 65% of the wing-or rotor- span.

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

Label rates, conditions and precautions are product specific. Read and understand the entire label before opening this product. Apply only at the rate specified 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.

## Use precautions

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

## Product specific precautions

Read and understand the entire label before opening this product. If you have questions, call the registrant at 1-888-975-4769 or obtain technical advice from the distributor or your provincial or territorial agricultural representative. Application of this specific product must meet and/or conform to the following:

Volume: Apply the specified rate in a minimum spray volume of 55 litres per hectare for conventionally piloted aircraft.

### **Spray Buffer Zones:**

A spray buffer zone is NOT required for:

low-clearance hooded or shielded sprayers that prevent spray contact with 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), sensitive freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands).

Method of	Cron	Spray Buffer Zones (metres) (Required for the Protection of:		
Application	Crop	Freshwater	Habitat of Depths	Terrestrial
		Less than 1 m	Greater than 1 m	Habitat

Field sprayer	Field crops at 0.38–0.5 L/ha		1	0	3
	Field crops up to 0.75 L/ha		1	0	5
	Field crops at	Fixed Wing	1	0	85
	0.38 L/ha	Rotary Wing	1	0	70
Aerial	rerial Field crops at 0.5 L/ha	Fixed Wing	1	0	100
		Rotary Wing	1	0	85
	Field crops at	Fixed Wing	1	0	150
	0.75 L/ha	Rotary Wing	1	0	125

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 (ASABE) category indicated on the labels for those tank mix partners.

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

POSTEMERGENCE APPLICATIONS - CANOLA, FLAX (INCLUDING LOW LINOLENIC ACID VARIETIES), SUNFLOWERS (2-8 LEAF), SOYBEANS (INCLUDING VARIETIES DESIGNATED "STS"), SEED ALFALFA, LENTILS AND PEAS (FIELD AND PROCESSING) AND SEEDLING LEGUMES FOR SEED PRODUCTION; FOR USE IN WESTERN CANADA ON CONDIMENT AND OILSEED TYPE ORIENTAL MUSTARD (INCLUDING CANOLA QUALITY Brassica juncea), YELLOW AND BROWN MUSTARD; AND CRAMBE:

## **Surfactant**

SURFACTANT	RATE
Crop Oil Concentrate	5 – 10 L per 1000 L spray solution
Merge*	5 – 10 L per1000 L spray solution
MSO	5 – 10 L per1000 L spray solution
Sure-Mix*	0.5% (0.5 L per 100 L spray solution
NIS	0.25 – 0.5% v/v

MARSHALL UNPACKED must be applied with a surfactant.

For optimal performance a high quality Crop Oil Concentrate is preferred. When tankmixing with other herbicides select an adjuvant recommended for use with both products.

Use the higher rate when wild oats or quackgrass are the main target weeds, or under conditions not conducive to good growth.

Follow instructions as outlined in Mixing Instructions section of this label.

Apply the specified rate of MARSHALL UNPACKED with a surfactant at the leaf stage of the grass weed indicated in the table below

RATE	WEEDS CONTROLLED	WEED LEAF STAGE
	green foxtail	2 leaf to early tillering
	volunteer barley	2 leaf to early tillering
0.38 L/ha	volunteer corn	2 – 6 leaf
0.36 L/IIa	volunteer oats	†2 leaf to early tillering
	volunteer wheat	2 leaf to early tillering
	wild oats	1 – 5 leaf without tillers
	Those controlled by 0.38 L/ha and:	
	barnyard grass	2 leaf to early tillering
	wild oats	†1 – 5 leaf to early tillering (up to two tillers)
	fall panicum	2 leaf to early tillering
	old witchgrass	2 leaf to early tillering
0.501/5-	proso millet	2 leaf to early tillering
0.50 L/ha	yellow foxtail	2 leaf to early tillering
	foxtail barley	3 leaf to 4 leaf + tillers
	downy brome	2-5 leaf
	Japanese brome	2-5 leaf
	Weeds Suppressed	
	quackgrass	2 – 6 leaf
	Those controlled by 0.50 L/ha and:	
0.75 L/ha	quackgrass	2 – 6 leaf

†best results on volunteer/wild oats if application is made before tillering begins

**NOTE**: Use the higher rate of XA Oil Concentrate or Merge when wild oats or quackgrass are the main target weeds, or under conditions not conducive to good growth.

When using a broadleaf only herbicide, wait a minimum of 24 hours after the MARSHALL UNPACKED application to apply the broadleaf herbicide or wait 7 days after the broadleaf application to apply MARSHALL UNPACKED.

## **CROP SPECIFIC RECOMMENTATIONS.**

This product may be tank mixed with products listed or other registered pest control products, whose labels also allow tank mixing, provided the entirety of both labels, including Directions For Use, Precautions, Restrictions, Environmental Precautions, and Spray Buffer Zones are followed for each product. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed. Do not tank mix products containing the same active ingredient unless specifically listed on this label.

In some cases, tank mixing pest control products can result in reduced pesticide efficacy or increased host crop injury. The user should contact your local representative at 1-888-975-4769 for information before applying any tank mix that is not specifically recommended on this label.

#### NOTE - Refer to:

- DIRECTIONS FOR USE section of this label for a list of surfactant options
- DIRECTIONS FOR USE section of this label for a complete list of grassy weeds and their stages of control
- USE PRECAUTIONS section of this label for additional application and/or use precaution instructions
- SPRAY PREPARATION section of this label for mixing instructions.

CROP	RATE	COMMENTS
Seed Alfalfa	0.38 – 0.75 L/ha MARSHALL UNPACKED PLUS	GROUND OR AERIAL APPLICATION One application per season only
	Surfactant (see DIRECTIONS FOR USE section of this label for recommendations)	
Flax (including low linolenic acid varieties)	0.38 – 0.75 L/ha MARSHALL UNPACKED  PLUS Surfactant (see	GROUND OR AERIAL APPLICATION One application per season only
	DIRECTIONS FOR USE section of this label for recommendations)	
Lentils, Peas (field & processing)	0.38 – 0.75 L/ha MARSHALL UNPACKED PLUS	GROUND OR AERIAL APPLICATION One application per season only

Chickpeas (western Canada only)	Surfactant (see DIRECTIONS FOR USE section of this label for recommendations)  0.38 - 0.75 L/ha MARSHALL UNPACKED PLUS Surfactant (see DIRECTIONS FOR USE section of this label for recommendations)	GROUND APPLICATION ONLY One application per season only Use a minimum of 100 L of water/ha •The PHI is 85 days for chickpeas. •When tank mix partners are used, the most restricted PHIs must be observed.
Oriental Mustard (condiment and oilseed type (INCLUDING CANOLA QUALITY Brassica juncea), AND BROWN MUSTARD)) (western Canada only)	0.38 – 0.75 L/ha MARSHALL UNPACKED PLUS Surfactant (see DIRECTIONS FOR USE section of this label for recommendations)	GROUND OR AERIAL APPLICATION One application per season only The preharvest interval (PHI) is 64 days When tank mix partners are used, the most restricted PHIs must be observed.
	0.38 – 0.50 L/ha MARSHALL UNPACKED PLUS 20 g/ha Muster*Toss-N-Go* PLUS Surfactant (see DIRECTIONS FOR USE section of this label for recommendations)	GROUND APPLICATION ONLY One application per season only Refer to the Muster* Toss-N-Go* label for broadleaved weeds controlled No additional surfactant is needed when Merge* or Sure- Mix* is used  IMPORTANT: carefully follow sprayer clean-out directions on the Muster* Toss-N-Go* label NOTE: Stinkweed is controlled by 20 g/ha of Muster* Toss-N-Go* when tank mixed with MARSHALL and Merge* or Sure-Mix*
Canola (rapeseed)	0.38 – 0.75 L/ha MARSHALL UNPACKED PLUS Surfactant (see DIRECTIONS FOR USE section of this label for recommendations)	GROUND OR AERIAL APPLICATION One application per season only
	0.38 – 0.5 L/ha MARSHALL UNPACKED PLUS 20 – 30 g/ha Muster* Herbicide PLUS	GROUND APPLICATION ONLY One application per season only Refer to the Muster* Herbicide label for broadleaved weeds controlled No additional surfactant is needed when Merge* or Sure- Mix* is used

	Surfactant (see DIRECTIONS FOR USE section of this label for recommendations)	IMPORTANT: carefully follow sprayer clean-out directions on the Muster* Herbicide label NOTE: Stinkweed is controlled by 20 g/ha of Muster* Herbicide when tank mixed with MARSHALL and Merge* or Sure-Mix*
TRIBENURON- METHYL TOLERANT SUNFLOWERS	0.5 – 1 L/ha MARSHALL UNPACKED PLUS 15 g/ha EXPRESS® SG Herbicide PLUS  Surfactant (see DIRECTIONS FOR USE section of this label for recommendations)	Apply at the 2-8 leaf stage of the tribenuron-methyl tolerant sunflowers (e.g. ExpressSun™ sunflowers SU7) and at the leaf stage of the grass and broadleaf weeds indicated below.  Application should be made using a minimum spray volume of 55 L/ha.  Weed Controlled: Lamb's-quarters  Weed Suppressed: Wild Buckwheat  Pluse all weeds according to rates of use on this label.
Soybeans (including varieties designated "STS")	0.38 – 0.75 L/ha MARSHALL UNPACKED  PLUS  Surfactant (see DIRECTIONS FOR USE section of this label for recommendations)  0.38 – 0.63 L/ha MARSHALL UNPACKED  PLUS	GROUND OR AERIAL APPLICATION One application per season only  GROUND APPLICATION ONLY One application per season only  If the timings for grassy and broadleaf weeds do not
	36 g/ha Classic* Herbicide PLUS Surfactant (see DIRECTIONS FOR USE section of this label for recommendations)	coincide, a sequential application of the grass and broadleaf herbicides is required to ensure optimal weed control.  NOTE: A tank mix of MARSHALL UNPACKED and Classic Herbicide may result in a reduction in control of quackgrass and yellow foxtail. Use at least 0.50 L/ha of MARSHALL UNPACKED. For most consistent results, use the 0.63 g/L rate of MARSHALL UNPACKED.

0.63 L/ha	GROUND APPLICATION ONLY
MARSHALL UNPACKE	
D D	If the timings for grassy and broadleaf weeds do not
PLUS	coincide, a sequential application may be required to
	ensure satisfactory control.  DO NOT apply before the crop has 1 – 2 full trifoliate
5.5 – 8.0 g/ha Pinnacle* Toss-N-	leaves.
Go* Herbicide	NOTE: A tank mix of MARSHALL UNPACKED, Pinnacle*
PLUS	Toss-N-Go* Herbicide and Basagran* Forte Herbicide
1 200	may result in a reduction in grassy weed control. For
	optimum control, a
1.75 – 2.25 L/ha	rate of 0.63 L/ha MARSHALL UNPACKED is
Basagran <sup>®</sup> Forte	recommended. When growing conditions are not
Herbicide	conducive to good growth, use the higher rate of XA
PLUS	Oil Concentrate. DO NOT FREEZE
Surfactant (see	
DIRECTIONS FOR	
USE section of this label for	
recommendations)	
,	
0.50 L/ha	GROUND APPLICATION ONLY
MARSHALL	
UNPACKE D	If the timings for grassy and broadleaf weeds do not
PLUS	coincide, a sequential application may be required to ensure satisfactory control.
8.0- 12.0 g/ha	DO NOT apply before the crop has 1 – 2 full trifoliate
Pinnacle* SG Toss-	leaves.
N-Go* Herbicide	Control of velvetleaf may be reduced when
	Pinnacle* SG Toss-N-Go* Herbicide is tank mixed
PLUS	with MARSHALL UNPACKED. For optimal control,
Surfactant (see	apply the products separately.
DIRECTIONS FOR	When growing conditions are not conducive to good growth, use the higher rate of XA Oil Concentrate.
USE section of this	DO NOT FREEZE
label for	
recommendations)	
l	l

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

The DIRECTIONS FOR USE for this product for the use(s) described below were developed by persons other than Nissan Chemical Corporation under the User Requested Minor Use Label Expansion program. For these uses, Nissan Chemical Corporation 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 application.

#### Refer to:

- DIRECTIONS FOR USE section of this label for a list of surfactant options
- DIRECTIONS FOR USE section of this label for a complete list of grassy weeds and their stages of control
- USE PRECAUTIONS section of this label for additional application and/or use precaution instructions
- SPRAY PREPARATION section of this label for mixing instructions.

CROP	RATE	COMMENTS
(Brassica carinata)	PLUS	GROUND OR AERIAL APPLICATION     Refer to Directions for Use for the leaf stage of the grassy weeds
	0.5% v/v Surfactant (see DIRECTIONS FOR USE section of this label for recommendations)	Do not apply within 64 days ofharvest.
(Dry Broad Beans)	0.38 -0.75 L/ha MARSHALL UNPACKED	GROUND APPLIATION ONLY     Use 100-400 litres of water/ha.
ànd Narrow Leaf ´	PLUS	Use as single post emergentspray
	0.5% v/v Surfactant (see DIRECTIONS FOR USE section of this label for recommendations)	Do not apply within 30 days ofharvest.
	0.38 – 0.75 L/ha	GROUND APPLICATION ONLY     Do not graze or cut for hay in the year of treatment
alsike clovers for seed production	MARSHALL UNPACKED PLUS	• Do not apply within 30 days ofharvest.
·	0.5% v/v Surfactant (see	<ul> <li>Application should be made before crop canopy closes.</li> </ul>
	DIRECTIONS FOR USE	<ul> <li>Make one application per growing season.</li> <li>Apply a minimum of 100 L/ha of total spray volume.</li> </ul>
	section of this label for	тарру а minimum or 100 L/na or total spray volume.
	recommendations)	
	0.38 – 0.75 L/ha MARSHALL UNPACKED	Including: citron melon; cucumber; gherkin; edible gourd (hyotan,
Cucurbit vegetables	PLUS	cucuzza); Chinese okra; Chinese cucumber; muskmelon hybrids
	0.5% v/v Surfactant (see DIRECTIONS FOR USE section of this label for recommendations)	and or cultivars of Cucumis melo including true cantaloupe, cantaloupe, casaba, Crenshaw melon, golden pershaw melon, honeydew melon, honey balls, mango melon, Persian melon, pineapple melon, Santa Claus melon, and snake melon; pumpkin; summer squash including crookneck squash, scallop squash, straightneck squash, vegetable marrow, and zucchini; winter squash including butternut squash, calabaza, hubbard squash, acorn squash, spaghetti squash; watermelon including hybrids and/or varieties of Citrullus lanatus.  • GROUND APPLICATION ONLY
		Do not apply within 30 days of harvest.
		Make one application per year when the crop is at the 2-6 leaf stage.
		• Use in a minimum of 100 litres of water/ha.
		Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

Camelina Sativa	0.38 – 0.75 L/ha	GROUND APPLIATION ONLY
	MARSHALL UNPACKED	• Use in a minimum of 100 litres of water/ha.
	PLUS	Do not apply within 64 days of harvest.
	0.5% v/v Surfactant (see	DO NOT use open cab equipment if treating more than 290
	DIRECTIONS FOR USE	ha/day. If treating more than 290 ha/day, closed cab
	section of this label for	equipment, long-sleeved shirt, long pants, socks, and shoes
	recommendations)	are required for application.
		DO NOT enter or allow worker entry into treated areas during
		the restricted entry interval (REI) of 4 days following application
		for scouting activities in camelina.
Seedling Legumes	0.50 - 0.75 L/ha	GROUND APPLICATION ONLY
for Seed Production	MARSHALL UNPACKED	Apply before crop canopy closes to maximize spray coverage.
Only (for bird's-foot trefoil, alsike, red,	PLUS	One application per season only
white and sweet	Surfactant (see	Use a properly calibrated sprayer that will provide thorough
clover and sainfoin)	DIRECTIONS FOR USE	coverage of the weeds
,	section of this label for	• Apply a minimum of 100 L / ha of total sprayvolume.
	recommendations)	DO NOT graze or cut for hay inthe year of treatment
Established Creeping	0.50 – 0.75 L/ha	GROUND APPLICATION ONLY
	MARSHALL UNPACKED	A LAMADOUALLUNDAOUED AND ILLUSTED AND ILLUST
Production Only	PLUS	Apply MARSHALL UNPACKED + Ally Herbicide tank mixture
	7.5 g/ha Ally® Herbicide	post emergent to the first main flush of actively growing weeds,
	PLUS	when established creeping red fescue is in the 2 leaf to flag leaf (shot blade) stage. Apply before the crop canopy is dense
	Surfactant (see	enough to prevent thorough coverage of the weeds.
	DIRECTIONS FOR USE section of this label for a	One application per season only.
	recommendations)	one application per occession.
Seedling or	0.50 – 0.75 L/ha	GROUND APPLICATION ONLY
Established Creeping	l	•Apply when quackgrass is in the 2-6-leaf stage and when
Red Fescue for Seed	PLUS	annual grassy weeds are from the 2-leaf stage to early tillering.
Production	Surfactant (see	Apply before crop canopy closes to maximize spray coverage.
	DIRECTIONS FOR USE	One application per season only
	section of this label for	Use a properly calibrated sprayer that will provide thorough
	recommendations)	coverage of the weeds with the spray solution.
		<ul> <li>Apply a minimum of 100 L / ha of total spray volume</li> <li>DO NOT graze or cut treated established creeping red fescue</li> </ul>
		for feed or hay in the year of treatment.
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Snap Beans	0.38	• GROUND APPLICATION ONLY
		One application per season only at the 2- to 5-leaf stage of annual grasses and up to the 3-leaf stage of quackgrass.
	PLUS	■ DO NOT apply within 30 days of harvest.
	Surfactant (see	- DO NOT apply within 00 days of harvest.
	DIRECTIONS FOR USE section of this label for	
	recommendations)	
Sugarbeets	0.38 L/ha	GROUND APPLICATION ONLY
Sugarbeets	MARSHALL	Apply MARSHALL UNPACKED as a post
	UNPACKE	emergent broadcast application to small,
	D	emerged grassy weeds
	PLUS	Sine god graddy moddo
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	Surfactant (see DIRECTIONS FOR USE section of this label for recommendations)	<ul> <li>between the 2 leaf to early tillering leaf stage.</li> <li>Apply before crop canopy closes to maximize spray coverage.</li> <li>If a second flush of annual grasses or volunteer cereals is observed, apply an additional (sequential) application of MARSHALL UNPACKED at 0.38 L /ha + recommended adjuvant.</li> <li>For optimum control of grassy weeds, volunteer cereals and quackgrass, apply MARSHALL UNPACKED 0.75 L/ha with recommended adjuvant.</li> <li>Do not exceed an accumulative, seasonal use rate of 0.75 L/ha of MARSHALL UNPACKED per year.</li> <li>Use a properly calibrated sprayer that will provide thorough coverage of the weeds with the spray solution.</li> <li>The minimal re-treatment interval (RTI) is 14 days.</li> </ul>
Dry Common Beans (Phaseolus vulgaris	0.38 – 0.75 L/ha MARSHALL UNPACKED	GROUND APPLICATION ONLY     Dry common bean varieties may vary in their tolerance to
spp) including, but	PLUS	herbicides, including MARSHALL UNPACKED. The
Pinto, Navy, Great Northern, Pink and Small Red Beans (western Canada only)	Surfactant (see DIRECTIONS FOR USE section of this label for recommendations)  0.38 – 0.75 L/ha MARSHALL UNPACKED PLUS Surfactant (see DIRECTIONS FOR USE section of this label for	tolerance of some dry common bean varieties listed on this label has been confirmed when MARSHALL UNPACKED is applied as directed. Since not all dry common bean varieties have been tested for tolerance to MARSHALL UNPACKED, first use of IPCO Contend Herbicide should be limited to a small area of each variety to confirm tolerance prior to adoption as a general field practice. Additionally, consult your seed supplier for information on the tolerance of specific varieties of dry common beans to MARSHALL UNPACKED  • DO NOT apply within 30 days ofharvest.  • One application per season • GROUND APPLICATION ONLY • Apply a minimum of 100 L / ha of total spray volume • One application per season. • DO NOT apply within 30 days of harvest
Saakataan harriaa	recommendations)	• GROUND APPLICATION ONLY
Saskatoon berries	0.38 – 0.75 L/ha MARSHALL UNPACKED	Apply a minimum of 100 L water / ha     Single post-emergent broadcast spray directed at the ground (to minimize the amount of spray coming into contact with Saskatoon berries).
	PLUS	DO NOT apply within 41 days of harvest
	5 L per 1000 L of spray solution (0.5 % v/v) Surfactant (see DIRECTIONS FOR USE section of this label for recommendations)	

CROP GROUP 11- 09: POME FRUITS: apple, azarole, crabapple, mayhaw, medlar, pear, Asian pear, quince, Chinese quince, Japanese quince, tejocote, as well as cultivars, varieties and/or hybrids of these commodities.	0.38 – 0.75 L/ha MARSHALL UNPACKED  PLUS  5 L per 1000 L of spray solution (0.5 % v/v) Surfactant (see DIRECTIONS FOR USE section of this label for recommendations)	GROUND APPLICATION ONLY     Apply a minimum of 100 water L / ha     Single post-emergent broadcast spray directed at the ground (to minimize the amount of spray coming into contact with fruit trees).     DO NOT apply within 14 days of harvest
CROP GROUP 12-09: STONE FRUITS: apricot, Japanese apricot, black cherry, Nanking cherry, sweet cherry, tart cherry, Chinese jujube, nectarine, peach, plum, American plum, beach plum, Canada plum, cherry plum, Chicksaw plum, Damson plum, Japanese plum, Klamath plum, prune plum, plumcot, sloe, as well as cultivars, varieties and hybrids of these commodities.	0.38 – 0.75 L/ha MARSHALL UNPACKED  PLUS  5 L per 1000 L of spray solution (0.5 % v/v) Surfactant (see DIRECTIONS FOR USE section of this label for recommendations)	GROUND APPLICATION ONLY     Apply a minimum of 100 L water/ ha     Single post-emergent broadcast spray directed at the ground (to minimize the amount of spray coming into contact with fruit trees).     DO NOT apply within 14 days of harvest
CROP SUBGROUP 13-07F: SMALL FRUITS VINE CLIMBING, EXCEPT FUZZY KIWIFRUIT: Amur river grape, gooseberry, grape, hardy kiwifruit, maypop, Schisandra berry, as well as cultivars, varieties, and hybrids of these commodities.	0.38 – 0.75 L/ha MARSHALL UNPACKED  PLUS  5 L per 1000 L of spray solution (0.5 % v/v) Surfactant (see DIRECTIONS FOR USE section of this label for recommendations)	GROUND APPLICATION ONLY     Apply a minimum of 100 L water / ha     Single post-emergent broadcast spray directed at the ground (to minimize the amount of spray coming into contact with fruit trees).     DO NOT apply within 15 days of harvest
White, White and Red Kidney, Cranberry, Black,	0.38 – 0.75 L/ha MARSHALL UNPACKED PLUS	GROUND APPLICATION ONLY     Apply at the 2-5-leaf stage of the annual grasses.     One application perseason.

Brown and Yellow Eye, Lima, Mung, Otebo and Adzuki Beans (southern Ontario Only)	Surfactant (see DIRECTIONS FOR USE section of this label for recommendations)	DO NOT apply within 30 days of harvest.
Pinto, Pink, Great Northern and Small Red Beans (western Canada only)	0.63 L/ha MARSHALL UNPACKED PLUS 1.75 – 2.25 L/ha Basagran® Herbicide PLUS Surfactant (see DIRECTIONS FOR USE section of this label for recommendations)	GROUND APPLICATION ONLY     One application per season only     DO NOT apply within 65 days of harvest
Rutabagas (Ontario and Quebec only)	0.38 – 0.75 L/ha MARSHALL UNPACKED PLUS Surfactant (see DIRECTIONS FOR USE section of this	OROUND APPLICATION ONLY Apply at the 2-5-leaf stage of the annual grasses. One application perseason. DO NOT apply within 30 days of harvest.
Industrial Hemp for Fibre, seed and oil Production	0.38 – 0.75 L/ha MARSHALL UNPACKED PLUS Surfactant (see DIRECTIONS FOR USE section of this	One application per season only when the crop is at the 2-6 crop leaf stage (6-25 cm in height) Use in a minimum of 100 litres of water/ha with a spray pressure of 210-275 kPa.
Soybeans (Ontario only)	0.38 L/ha MARSHALL UNPACKED PLUS Surfactant (see DIRECTIONS FOR USE section of this	GROUND APPLICATION ONLY     For the control of long-spined sandbur applyas a single post emergent spray at the 2 leaf to tillering stage.     DO NOT apply within 80 days of harvest.

## SPRAYER CLEANOUT

Thoroughly clean all traces of MARSHALL UNPACKED from application equipment immediately after use. Flush tank, pump, hoses, and boom with several changes of water after removing nozzle tips and screens (clean these parts separately). Failure to thoroughly clean the equipment may result in injury to subsequently sprayed grass crops.

## STORAGE:

Store product in original container only, away from fertilizer or seed. Not for use or storage in or around the home. Keep container closed. DO NOT FREEZE.

#### **DISPOSAL:**

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 or territorial requirements.

For information on disposal of unused, unwanted product, contact the registrant or the provincial or territorial regulatory agency. Contact the registrant and the provincial or territorial regulatory agency in case of a spill, and for 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.

\*All other products mentioned are trademarks of their respective companies.