

2022-3214  
2022-08-04

GROUP	2	HERBICIDE
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<container label>  
[indicates optional text]

## ROTAM TT HERBICIDE

DRY FLOWABLE

[FOR USE ON WHEAT (SPRING, WINTER OR DURUM), BARLEY, OATS, SULFONYLUREA (SU) TOLERANT CANOLA AND SEEDLING AND ESTABLISHED GRASS SPECIES FOR FORAGE AND SEED PRODUCTION ONLY]

COMMERCIAL

READ THE LABEL AND ATTACHED BOOKLET BEFORE USING

**ACTIVE INGREDIENT:** Thifensulfuron methyl 50% Tribenuron methyl 25%

WARNING – EYE AND SKIN IRRITANT

REGISTRATION. NO.: 34452 PEST CONTROL PRODUCTS ACT

**NET CONTENTS:** 20 grams – 13.6 kg

Albaugh LLC  
1525 NE 36th Street  
Ankeny, IA 50021 USA  
1-800-247-8013

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- **KEEP OUT OF REACH OF CHILDREN.**
  - Avoid breathing spray mist. Use with adequate ventilation.
  - Avoid contact with skin, eyes and clothing.
  - Do not contaminate any body of water.
  - May be harmful if swallowed, inhaled or absorbed through skin.
  - Causes eye and skin irritation.
  - When using, do not eat, drink or smoke. Wash skin thoroughly with soap and water after handling.
  - Remove contaminated clothing immediately after use. Store and wash contaminated clothing separately from household laundry before re-use.
  - Wear coveralls over a long-sleeved shirt, long pants, chemical-resistant gloves and socks and chemical-resistant footwear during mixing, loading, application, clean-up and repair. In addition, wear a face shield during mixing and loading. Chemical-resistant gloves are not required while operating groundboom sprayers.
- **TOXIC** to non-target terrestrial plants and aquatic organisms. Observe spray buffer zones specified under DIRECTIONS FOR USE.

#### **FIRST AID:**

##### **If in eyes:**

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

##### **If on skin or clothing:**

Take off contaminated clothing. Rinse skin immediately with plenty of water for 15–20 minutes. Call a poison control centre or doctor for treatment advice.

##### **If swallowed:**

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

##### **If inhaled:**

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

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

For medical emergencies, call CHEMTREC 1-800-424-9300 (24 hours).

**TOXICOLOGICAL INFORMATION:** Treat symptomatically.

#### **STORAGE:**

Store this product away from food or feed. Not for use or storage in or around the home. Keep container closed

#### **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.

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

**If this is a refillable container:**

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.

**If this is a returnable container:**

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

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

**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.

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<booklet>

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## ROTAM TT HERBICIDE

DRY FLOWABLE

FOR USE ON WHEAT (SPRING, WINTER OR DURUM), BARLEY, OATS, SULFONYLUREA (SU)  
TOLERANT CANOLA AND SEEDLING AND ESTABLISHED GRASS SPECIES FOR FORAGE AND SEED  
PRODUCTION ONLY

COMMERCIAL

READ THE LABEL AND ATTACHED BOOKLET BEFORE USING

**ACTIVE INGREDIENT:** Thifensulfuron methyl 50% Tribenuron methyl 25%

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**NET CONTENTS:** 20 grams – 13.6 kg

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1525 NE 36th Street  
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**PRECAUTIONS:**

- **KEEP OUT OF REACH OF CHILDREN.**
- Avoid breathing spray mist. Use with adequate ventilation.
- Avoid contact with skin, eyes and clothing.
- Do not contaminate any body of water.
- May be harmful if swallowed, inhaled or absorbed through skin.
- Causes eye and skin irritation.
- When using, do not eat, drink or smoke. Wash skin thoroughly with soap and water after handling.
- Remove contaminated clothing immediately after use. Store and wash contaminated clothing separately from household laundry before re-use.
- Do not apply by air.
- Wear coveralls over a long-sleeved shirt, long pants, chemical-resistant gloves and socks and chemical-resistant footwear during mixing, loading, application, clean-up and repair. In addition, wear a face shield during mixing and loading. Chemical-resistant gloves are not required while operating groundboom sprayers.
- **Do not** enter or allow entry into treated areas for 12 hours after application.

**FIRST AID:**

**If in eyes:**

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

**If on skin or clothing:**

Take off contaminated clothing. Rinse skin immediately with plenty of water for 15–20 minutes. Call a poison control centre or doctor for treatment advice.

**If swallowed:**

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

**If inhaled:**

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

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

For medical emergencies call CHEMTREC 1-800-424-9300 (24 hours).

**TOXICOLOGICAL INFORMATION:** Treat symptomatically.

**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 other 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, recreational grounds or similar areas. Prevent drift of spray to desirable plants. Do not contaminate any body of water, including irrigation water that may be used on other crops.

DO NOT apply using aerial application equipment.

Carefully observe sprayer clean-up instructions, as spray tank residues may damage crops other than wheat, barley, oats or SU Canola™.

APPLY WITH A SURFACTANT REGISTERED FOR USE WITH ROTAM TT HERBICIDE

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## GENERAL INFORMATION

ROTAM TT HERBICIDE is recommended for selective postemergence control or suppression of broadleaf weeds in wheat (spring, winter or durum), barley, oats and SU tolerant canola. ROTAM TT HERBICIDE is a 75% active ingredient herbicide formulated as a dry flowable dispersible granule. ROTAM TT HERBICIDE is to be mixed with water and a recommended surfactant and applied as a uniform broadcast spray. It is noncorrosive, nonflammable, nonvolatile and does not freeze.

ROTAM TT HERBICIDE MUST be applied with a recommended surfactant, early postemergence, to the main flush of actively growing broadleaf weeds. Recommended surfactants are AGRAL\* 90, AG-SURF\*, and CITOWETT® PLUS.

ROTAM TT HERBICIDE is a Group 2 herbicide and may only suppress or not control Group 2 resistant weeds.

Warm, moist growing conditions promote active weed growth and enhance the activity of ROTAM TT HERBICIDE by allowing maximum foliar uptake and contact activity. Weeds hardened off by cold weather or drought stress may not be adequately controlled or suppressed and regrowth may occur. APPLY ROTAM TT HERBICIDE WITH GROUND EQUIPMENT ONLY. For best results, ensure thorough spray coverage of target weeds. See "APPLICATION INSTRUCTIONS" section of this label for complete use details.

ROTAM TT HERBICIDE stops growth of susceptible weeds rapidly. However, typical symptoms (discolouration) of dying weeds may not be noticeable for 1 to 3 weeks after application, depending upon growing conditions and weed susceptibility. Degree of control and duration of effect are dependent on weed sensitivity, weed size, crop competition, growing conditions at and following treatment, and spray coverage.

The following crops may be planted two months after an application of ROTAM TT HERBICIDE: canola, flax, lentils and alfalfa.

## DIRECTIONS FOR USE

- DO NOT re-enter treated fields until 12 hours after application.
- Apply only when the potential for drift to areas of human habitation or areas of human activity such as houses, cottages, schools and recreational areas is minimal. Take into consideration wind speed, wind direction, temperature inversion, application equipment and sprayer settings.

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.

### Field sprayer application:

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

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### Spray Buffer zones:

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, pastures, rangelands, riparian areas, and shrublands), and aquatic habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands).

Method of Application	Spray Buffer zone (metres) required for the protection of:		
	Terrestrial habitat	Aquatic habitats of water depths:	
		<1m	>1m
Field sprayer	15	1	0

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.

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.

### 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 of this product when heavy rain is forecast.
- Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative strip between the treated area and the edge of the water body

### SULFONYLUREA TOLERANT CANOLA

(FOR USE ONLY ON SULFONYLUREA TOLERANT CANOLA THAT CONTAINS THE CIBUS SU CANOLA™ TRAIT)

### APPLICATION TIMING

Apply 20 grams of ROTAM TT HERBICIDE per hectare with a surfactant which is recommended for use with ROTAM TT HERBICIDE at 2.0 litres per 1,000 litres of spray volume (see "Mixing Instructions" section of this label) when SU Canola™ is at the 2 to 5 leaf stage of development but prior to the beginning of bolting for the control or suppression of weeds listed below. For best results apply to emerged, young, actively growing weeds that are less than 10 cm tall or across. Thorough coverage of target weeds is essential.

### RESTRICTIONS:

Only for use on canola that contains the Cibus sulfonylurea herbicide tolerant trait (SU Canola™ Trait).  
Do not apply to non-sulfonylurea tolerant canola as severe crop injury or death of the plants may occur.  
Do not exceed more than 20 g of product per hectare applied to any one crop of SU tolerant Canola (Cibus SU Canola™) during one growing season.

### WEEDS CONTROLLED:

Annual smartweed (green smartweed, lady's thumb)	Narrow-leaved hawk's-beard
Ball mustard	Redroot pigweed
Chickweed <sup>2</sup>	Russian thistle
Corn spurry	Shepherd's purse
Cow cockle	Stinkweed
Flixweed	Tartary buckwheat
Groundsel, common	Volunteer rapeseed <sup>6</sup>

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Hemp-nettle  
Kochia  
Lamb's-quarters

Volunteer sunflower  
Wild buckwheat<sup>3</sup>  
Wild mustard

#### **WEEDS SUPPRESSED:**

Canada thistle<sup>1</sup>  
Cleavers (1 to 3 whorls)  
Round-leaved mallow<sup>4</sup>  
Scentless chamomile  
Sow thistle<sup>1</sup>  
Stork's-bill (2-6 leaf)  
Toadflax<sup>5</sup>

Weed suppression is a visual reduction in weed competition (reduced population and/or vigour) as compared to an untreated check. Degree of suppression will vary with size of weed and environmental conditions prior to and following treatment.

#### **Specific Weed Recommendations:**

1. Canada thistle, Sow thistle: Apply ROTAM TT HERBICIDE plus recommended surfactant postemergence when the majority of the thistles have emerged and are actively growing. For best top growth control, apply when thistles are no larger than 15 cm tall, before bud stage, and before crop canopy prevents thorough coverage of thistles. A single application will effectively inhibit the ability of emerged thistles to compete with the crop. Later emerging thistles will not be controlled.
2. Chickweed: Apply ROTAM TT HERBICIDE plus recommended surfactant when the chickweed is small (1-6 leaf) and actively growing but before crop canopy prevents thorough coverage of weeds. Chickweed emerging after application will not be controlled.
3. Wild Buckwheat: Apply ROTAM TT HERBICIDE plus surfactant to actively growing wild buckwheat in the cotyledon - 3 leaf stage. Under stress conditions such as dry weather control may be reduced. Large plants may regrow after treatment.
4. Round-leaved Mallow: Apply ROTAM TT HERBICIDE plus a surfactant to actively growing round leaved mallow in the 2-6 leaf stage (10-12 cm in height). ROTAM TT HERBICIDE will keep mallow stunted but may not reduce the overall populations.
5. Toadflax: Apply ROTAM TT HERBICIDE plus recommended surfactant when toadflax is no taller than 15 cm in height. A control program for this weed includes both frequent tillage and chemical application.
6. Volunteer rapeseed: ROTAM TT HERBICIDE alone will not control imazamox and imazethapyr tolerant canola, (e.g. Clearfield\* canola)

NOTE: Avoid making applications to weeds when rainfall is threatening. Rainfall within 4 hours will result in reduced weed control of ROTAM TT HERBICIDE.

#### **Tank Mixtures**

In some cases, tank mixing a pest control product with another pest control product or a fertilizer can result in biological effects that could include, but are not limited to: reduced pest efficacy or increased host crop injury. The user should contact Rotam LTD at 1-866-927-6826 for information before mixing any pesticide or fertilizer that is not specifically recommended on this label.



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### ROTAM TT HERBICIDE + LONTREL\* 360 or CT MIX 360

**For Use on Sulfonylurea Tolerant Canola (for use only on sulfonylurea tolerant canola that contains the Cibus SU Canola™ trait).**

APPLY:

ROTAM TT HERBICIDE	at 20 grams per hectare
<b>plus</b>	
LONTREL* 360 or CT MIX 360	at 0.21 litres per hectare
<b>plus</b>	
a recommended surfactant	at 2 litres per 1000 litres of spray volume

See "Mixing Instructions" section of the label for proper mixing/application instructions. Ensure that ROTAM TT HERBICIDE is completely in suspension in the spray tank before adding LONTREL\* 360 or CT MIX 360.

Apply the tankmix from the full 2-leaf stage to the 5-leaf stage of SU tolerant canola. Consult the LONTREL\* 360 or CT MIX 360 label for additional application instructions and use precautions.

#### **WEEDS CONTROLLED:**

Canada Thistle (seasonal control) †  
Wild Buckwheat††

PLUS: All other broadleaf weeds controlled or suppressed by ROTAM TT HERBICIDE alone at 20 grams/ha.

†Canada Thistle (seasonal control): Apply ROTAM TT HERBICIDE plus LONTREL\* 360 or CT MIX 360 plus a recommended surfactant postemergent, after all the thistles have emerged, and are actively growing. For best control, apply when thistles are no larger than 15 cm tall, before bud stage and before crop canopy prevents thorough coverage of thistles. Later emerging thistles will not be controlled.

††Wild Buckwheat: Apply ROTAM TT HERBICIDE plus LONTREL\* 360 or CT MIX 360 plus a recommended surfactant to actively growing wild buckwheat in the cotyledon to 5-leaf stage. Under stress conditions such as dry weather, control may be reduced. Large plants may regrow after treatment.

### ROTAM TT HERBICIDE + YUMA GL LIQUID EC HERBICIDE

For use on Sulfonylurea Tolerant Canola (for use only on sulfonylurea canola that contains the Cibus SU Canola™ trait)

For the control of annual grasses as well as broadleaf weeds, apply a tank mixture of:

ROTAM TT HERBICIDE at 20 grams per hectare  
plus  
YUMA GL LIQUID EC HERBICIDE at 0.38 - 0.5 litres per hectare  
plus  
MERGE at 0.5 % v/v or 5 litres per 1000 litres spray solution

Apply ROTAM TT HERBICIDE plus YUMA GL LIQUID EC HERBICIDE tank mixture when the sulfonylurea tolerant canola (Cibus SU Canola™ trait) is in the 3- to 5-leaf stage of growth but prior to beginning of bolting. Application of the ROTAM TT HERBICIDE plus YUMA GL LIQUID EC HERBICIDE tank mixture prior to the 3-leaf stage of SU tolerant canola could result in crop injury.

This tankmix will control the above broadleaf weeds as well as the grass weeds listed below:

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<b>RATE</b>	<b>WEEDS CONTROLLED</b>	<b>WEED LEAF STAGE</b>	
0.38 or 0.5 L/ha	Barnyard grass	2 leaf to early tillering*	
	Green foxtail	2 leaf to early tillering	
	Volunteer barley	2 leaf to early tillering	
	Volunteer corn	2-6 leaf	
	Volunteer oats	2 leaf to early tillering**	
	Volunteer wheat	2 leaf to early tillering	
	Wild oats	1-5 leaf without tillers (0.38 L/ha)	
		1-5 leaf to early tillering (up to 2 tillers)** (0.5 L/ha)	
		<b>WEEDS SUPPRESSED</b>	<b>WEED LEAF STAGE</b>
	Quackgrass	2-6 leaf*	

\* Use the higher rate of YUMA GL LIQUID EC HERBICIDE (0.5 L/ha) for control of barnyard grass, as well as suppression of quackgrass.

\*\* Best results on volunteer/wild oats if application is made before tillering begins.

**NOTE:**

Consult the YUMA GL LIQUID EC HERBICIDE label for additional instructions regarding grassy weed size and/or height at time of application as well as other use precautions, and restrictions.

**ROTAM TT HERBICIDE + ARROW 240 EC HERBICIDE**

For use on Sulfonylurea Tolerant Canola (for use only on sulfonylurea tolerant canola that contains the Cibus SU Canola™ trait)

For the control of annual grasses as well as broadleaf weeds, apply a tank mixture of:  
ROTAM TT HERBICIDE at 20 grams per hectare

ARROW 240 EC HERBICIDE plus  
at 0.19 litres per hectare

ADAMA X-ACT plus  
at 0.5 % v/v or 5 litres per 1000 litres spray solution

Apply ROTAM TT HERBICIDE plus ARROW 240 EC tank mixture when the sulfonylurea tolerant canola (Cibus SU Canola™ trait) is in the 3- to 5-leaf stage of growth but prior to beginning of bolting. Application of the ROTAM TT HERBICIDE plus ARROW 240 EC tank mixture prior to the 3-leaf stage of SU tolerant canola could result in crop injury.

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This tankmix will control the above broadleaf weeds as well as the grass weeds listed below:

<b>Grass Species</b>	<b>Leaf Stage</b>	<b>Application Rate of ARROW 240 EC</b>	<b>Application Rate of X-ACT Adjuvant</b>
Wild Oats Volunteer cereals (wheat, barley, oats) Foxtail (green, yellow) Persian darnel Crabgrass (smooth and large) Proso millet Witchgrass Fall panicum Barnyard grass Volunteer corn Volunteer canary grass Quackgrass suppression	2 to 6	0.19 L/ha	0.5% v/v

**NOTE:**

Consult the ARROW 240 EC label for additional instructions regarding grassy weed size and/or height at time of application as well as other use precautions, and restrictions.

**ROTAM TT HERBICIDE Alone**

**Wheat (Spring, winter and durum), Barley and Oats**

Apply 20 grams of ROTAM TT HERBICIDE per hectare with a surfactant which is recommended for use with ROTAM TT HERBICIDE at 2.0 litres per 1,000 litres of spray volume (see "Mixing Instructions" section of this label). Apply postemergence when the crop is in the two-leaf to flag leaf (shot blade) stage of growth, (prior to head emergence) but before the crop canopy will prevent thorough coverage of target weeds. For best results apply to emerged, young, actively growing weeds that are less than 10 cm tall or across. Thorough coverage of target weeds is essential.

**WEEDS CONTROLLED:**

Annual smartweed (green smartweed, lady's thumb)	Narrow-leaved hawk's-beard
Ball mustard	Redroot pigweed
Chickweed <sup>2</sup>	Russian thistle
Corn spurry	Shepherd's purse
Cow cockle	Stinkweed
Flixweed	Tartary buckwheat
Groundsel, common	Volunteer rapeseed <sup>6</sup>
Hemp-nettle	Volunteer sunflower
Kochia	Wild buckwheat <sup>3</sup>
Lamb's-quarters	Wild mustard

**WEEDS SUPPRESSED:**

Canada thistle<sup>1</sup>  
Cleavers (1 to 3 whorls)  
Round-leaved mallow<sup>4</sup>  
Scentless chamomile  
Sow thistle<sup>1</sup>  
Stork's-bill (2-6 leaf) Toadflax<sup>5</sup>

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Weed suppression is a visual reduction in weed competition (reduced population and/or vigour) as compared to an untreated check. Degree of suppression will vary with size of weed and environmental conditions prior to and following treatment.

### **Specific Weed Recommendations:**

1. Canada thistle, Sow thistle: Apply ROTAM TT HERBICIDE plus recommended surfactant postemergence when the majority of the thistles have emerged and are actively growing. For best top growth control, apply when thistles are no larger than 15 cm tall, before bud stage, and before crop canopy prevents thorough coverage of thistles. A single application will effectively inhibit the ability of emerged thistles to compete with the crop. Later emerging thistles will not be controlled.
2. Chickweed: Apply ROTAM TT HERBICIDE plus recommended surfactant when the chickweed is small (1-6 leaf) and actively growing but before crop canopy prevents thorough coverage of weeds. Chickweed emerging after application will not be controlled.
3. Wild Buckwheat: Apply ROTAM TT HERBICIDE plus surfactant to actively growing wild buckwheat in the cotyledon - 3 leaf stage. Under stress conditions such as dry weather control may be reduced. Large plants may regrow after treatment.
4. Round-leaved Mallow: Apply ROTAM TT HERBICIDE plus a surfactant to actively growing round leaved mallow in the 2-6 leaf stage (10-12 cm in height). ROTAM TT HERBICIDE will keep mallow stunted but may not reduce the overall populations.
5. Toadflax: Apply ROTAM TT HERBICIDE plus recommended surfactant when toadflax is no taller than 15 cm in height. A control program for this weed includes both frequent tillage and chemical application.
6. Volunteer rapeseed: ROTAM TT HERBICIDE alone will not control imazamox and imazethapyr tolerant canola, (e.g. Clearfield\* canola)

### **NOTE:**

Avoid making applications to weeds when rainfall is threatening. Rainfall within 4 hours will result in reduced weed control of ROTAM TT HERBICIDE.

## **TANK MIXES WITH ROTAM TT HERBICIDE**

### **ROTAM TT HERBICIDE PLUS MCPA**

#### **Wheat (Spring, winter and durum), Barley and Oats**

Apply ROTAM TT HERBICIDE at 20 grams per hectare plus MCPA Amine or Ester 500 at 0.7 - 1.1 litres per hectare (or acid equivalent to deliver 350 - 560 grams active ingredient per hectare) plus a recommended surfactant at 2 litres per 1,000 litres of spray volume (see "Mixing Instructions" section of the label). Apply the tank mix from the full 3-leaf stage to just before the flag leaf stage of wheat (spring, durum, winter), barley and oats. This tank mix will control:

### **WEEDS CONTROLLED:**

Annual smartweed †	Prickly lettuce
Ball mustard	Ragweed ††
Burdocks (seedling)	Redroot pigweed
Chickweed	Russian pigweed ††
Cocklebur ††	Russian thistle
Corn spurry	Shepherd's purse
Cow cockle	Stinkweed
False ragweed ††	Tartary buckwheat
Flixweed	Tumble mustard
Giant ragweed ††	Volunteer rapeseed †††
Hare's-ear mustard	Wild buckwheat
Hempnettle	Plaintain (common)

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Indian mustard	Wild mustard
Kochia ††	Wild radish
Lamb's-quarters	Wormseed mustard

† Green smartweed and lady's thumb

†† Use a minimum of 400 grams MCPA active ingredient per hectare.

††† Including imazamox and imazethapyr tolerant canola (e.g., Clearfield\* canola).

#### **WEEDS SUPPRESSED:**

Canada thistle  
Round-leaved mallow  
Scentless chamomile  
Sow thistle  
Stork's-bill (2-6 leaf) (MCPA Ester only)

Follow "Specific Weed Recommendations" for Canada and sow thistle, wild buckwheat, round-leaved mallow and chickweed.

#### **WEEDS CONTROLLED BY ROTAM TT HERBICIDE PLUS MCPA (0.56 L/HA)**

Weeds controlled or suppressed by ROTAM TT HERBICIDE alone plus volunteer imazamox and imazethapyr tolerant canola (e.g., Clearfield\* canola) (2-4 leaf stage).

Consult the MCPA label for additional application instructions and use precautions .

#### **ROTAM TT HERBICIDE PLUS 2,4-D**

##### **Wheat or Barley –Do Not Use on Oats**

Apply ROTAM TT HERBICIDE at 20 grams per hectare tank mixed with 2,4-D and a recommended surfactant. Rates and formulation of 2,4-D include:

1. 2,4-D Amine 500 at 0.84 - 1.1 litres per hectare or
2. 2,4-D Ester LV700 at 0.6 - 0.8 litres per hectare or
3. 2,4-D Ester LV600 at 0.7 - 0.9 litres per hectare or
4. Acid equivalent.

A recommended surfactant at 2 litres per 1,000 litres of spray volume must be added (see "Mixing Instructions" section of the label). Apply the tank mix from the full 3-leaf stage to just before the flag leaf stage of wheat (spring, durum, winter) and barley. **DO NOT USE ON OATS.**

#### **WEEDS CONTROLLED:**

Annual smartweed †	Prickly lettuce
Ball mustard	Redroot pigweed
Burdocks (seedling)	Russian pigweed
Chickweed	Russian thistle
Cocklebur	Shepherd's purse
Common ragweed	Stinkweed
Corn spurry	Stork's-bill (2-6 leaf) (2,4-D ester only)
Cow cockle	
False ragweed	
Flixweed	Sweet clover

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Giant ragweed	Tartary buckwheat
Hare's-ear mustard	Tumble mustard
Hemp-nettle	Volunteer rapeseed ††
Indian mustard	Wild buckwheat
Kochia	Wild mustard
Lamb's-quarters	Wild radish
Plantain (common)	Wormseed mustard

† green smartweed and lady's thumb

†† including imazamox and imazethapyr tolerant canola varieties (e.g., Clearfield\* canola). Consult the 2,4-D label for appropriate use rates.

**WEEDS SUPPRESSED:**

Canada thistle  
Round-leaved mallow  
Scentless chamomile  
Sow thistle  
Toadflax (2,4-D Ester only)

Follow "Specific Weed Recommendations" for Canada and sow thistle, chickweed, wild buckwheat and round-leaved mallow.

Consult the 2,4-D label for additional application instructions and use precautions.

**ROTAM TT HERBICIDE PLUS ASSERT\* 300 Herbicide**

**Spring Wheat and Spring Barley Only**

**For Use in the Prairie Provinces and Interior (including Peace River Region) of British Columbia Only.**

Apply ROTAM TT HERBICIDE at 20 grams per hectare plus ASSERT\* 300 Herbicide at 1.3 to 1.6 litres of product per hectare for the control of broadleaf weeds controlled by ROTAM TT HERBICIDE, and wild oats.

Use the low rate of ASSERT\* 300 Herbicide when the majority of wild oats are in the 1 - 3 leaf stage and the higher rate if wild oats are in the 4-leaf stage. Application can be made from the 2-leaf up to and including the 6-leaf stage of the crop.

Consult the ASSERT\* 300 Herbicide label for additional application instructions; use precautions and recropping information.

Use the spray preparation within 12 hours or product degradation may occur.

**ROTAM TT HERBICIDE + ASSERT\* 300 Herbicide + MCPA ESTER 500**

**Spring Wheat and Spring Barley Only**

**For Use in the Prairie Provinces and Interior (including Peace River Region) of British Columbia Only**

Apply ROTAM TT HERBICIDE at 20 grams per hectare plus ASSERT\* 300 Herbicide at 1.3 - 1.6 litres of product per hectare plus MCPA Ester 500 at 0.7 - 1.1 litres per hectare (or acid equivalent to deliver 350 - 560 grams active ingredient per hectare) for the control of broadleaf weeds controlled by ROTAM TT HERBICIDE plus MCPA, and wild oats. Apply at the 4-leaf to 6-leaf stage of the crop.

<b>SOIL ZONES</b>	<b>ASSERT* 300 Herbicide RATE</b>
Black and Grey Wooded	1.6 L/ha
Brown and Dark Brown	1.3 L/ha if the majority of the wild oats are in the 1-3 leaf stage. Apply Assert* 300 Herbicide at the 1.6 L/ha if the wild oats are in the 4-leaf stage.

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Consult the ASSERT\* 300 Herbicide label for additional application instructions, use precautions and recropping information.

Use the spray preparation within 12 hours or product degradation may occur.

### ROTAM TT HERBICIDE + PUMA\* SUPER

#### Spring Wheat (Including Durum) and Barley

For Use in the Prairie Provinces and Interior (including Peace River Region) of British Columbia Only.

#### APPLY:

ROTAM TT HERBICIDE	at 20 grams per hectare
<b>Plus</b>	
PUMA* SUPER	at 0.5 or 1.0 Litres per hectare

A non-ionic surfactant is NOT required when ROTAM TT HERBICIDE is tankmixed with PUMA\* SUPER.

Apply the ROTAM TT HERBICIDE + PUMA\* SUPER tankmix to spring and durum wheat at the 1 to 6-leaf plus 3 tillers stage or to barley at the 1 to 5-leaf plus 2 tillers stage. Apply the tankmix to annual grasses in the 1-6 leaf stage (up to emergence of third tiller). Consult the PUMA\* SUPER label for additional information on appropriate weed staging, application instructions, environmental and use precautions.

#### WEEDS CONTROLLED:

Green Foxtail (PUMA\* SUPER at 0.5 or 1.0 L/ha)  
Wild Oats (PUMA\* SUPER at 1.0 L/ha)  
Barnyard Grass (PUMA\* SUPER at 1.0 L/ha)

This tankmix will also control or suppress the broadleaf weeds listed for ROTAM TT HERBICIDE alone at 20 grams/ha.

### ROTAM TT HERBICIDE + MCPA ESTER 500 + PUMA\* SUPER

#### Spring Wheat (Including Durum) and Barley

For Use in the Prairie Provinces and Interior (including Peace River Region) of British Columbia Only

#### APPLY:

ROTAM TT HERBICIDE	at 20 grams per hectare
<b>Plus</b>	
MCPA ESTER 500	at 0.84 Litres per hectare
<b>Plus</b>	
PUMA* SUPER	at 0.5 OR 1.0 Litres per hectare

A non-ionic surfactant is NOT required when ROTAM TT HERBICIDE is tankmixed with MCPA ESTER 500 + PUMA\* SUPER. Use ONLY MCPA ESTER 500 in this tankmix and only at the recommended rate or a decrease in wild oat control may be observed.

Apply the ROTAM TT HERBICIDE + MCPA ESTER 500 + PUMA\* SUPER tankmix to spring and durum wheat at the 1 to 6-leaf plus 3 tillers stage or to barley at the 1 to 5-leaf plus 2 tillers stage. Apply to annual grasses in the 1-6 leaf stage (up to emergence of third tiller). Consult the MCPA ESTER 500 and PUMA\* SUPER labels for additional information on appropriate weed staging, application instructions, environmental and use precautions.

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**WEEDS CONTROLLED:**

Green Foxtail (PUMA\* SUPER at 0.5 or 1.0 L/ha)  
Wild Oats (PUMA\* SUPER at 1.0 L/ha)  
Barnyard Grass (PUMA\* SUPER at 1.0 L/ha)

This tankmix will also control or suppress the broadleaf weeds listed for ROTAM TT HERBICIDE at 20 grams/ha + MCPA ESTER 500 at 0.84 Litres/ha.

**ROTAM TT HERBICIDE + PUMA\* 120 SUPER**

**Spring Wheat (Including Durum) and Barley**  
**For Use in the Prairie Provinces and Interior (including Peace River Region) of British Columbia Only**

**APPLY:**

ROTAM TT HERBICIDE	at 20 grams per hectare
<b>Plus</b>	
PUMA* 120 SUPER	at 770 mL/Ha or 385 mL/Ha

A non-ionic surfactant is NOT required when ROTAM TT HERBICIDE is tank mixed with PUMA\* 120 SUPER.

Apply the ROTAM TT HERBICIDE + PUMA\* 120 SUPER tankmix to spring and durum wheat at the 1 to 6-leaf plus 3 tillers stage or to barley at the 1 to 5-leaf plus 2 tillers stage. Apply the tankmix to annual grasses in the 1-6 leaf stage (up to emergence of third tiller). Consult the PUMA\* 120 SUPER label for additional information on appropriate weed staging, application instructions, environmental and use precautions.

**WEEDS CONTROLLED:**

Green Foxtail	(PUMA* 120 SUPER at 385 mL/ha)
Wild Oats, Green Foxtail, Yellow Foxtail, Barnyard grass	(PUMA* 120 SUPER at 770 mL/ha)
Broadleaf weeds controlled or suppressed by ROTAM TT HERBICIDE alone.	

**ROTAM TT HERBICIDE + PUMA\* 120 SUPER + MCPA Ester 500**

**Spring Wheat (Including Durum) and Barley**  
**For Use in the Prairie Provinces and Interior (including Peace River Region) of British Columbia Only**

**APPLY:**

ROTAM TT HERBICIDE		at 20 grams per hectare
<b>plus</b>		
PUMA* 120 SUPER		at 770 or 385 mL per hectare
<b>plus</b>		
MCPA Ester (500 g/L)		at 0.84 or 0.56 litres per hectare



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A non-ionic surfactant is NOT required when ROTAM TT HERBICIDE is tank mixed with PUMA\* 120 SUPER and MCPA Ester 500.

Use ONLY MCPA ESTER 500 in this tank mix and only at the recommended rate or a decrease in wild oat control may be observed.

Apply the ROTAM TT HERBICIDE + PUMA\* 120 SUPER + MCPA Ester 500 tank mix to spring and durum wheat at the 1 to 6-leaf plus 3 tillers stage or to barley at the 1 to 5-leaf plus 2 tillers stage. Apply the tank mix to annual grasses in the 1-6 leaf stage (up to emergence of third tiller). Consult the MCPA Ester 500 and PUMA\* 120 SUPER label for additional information on appropriate weed staging, application instructions, environmental and use precautions.

**WEEDS CONTROLLED:**

Green Foxtail	(PUMA* 120 SUPER at 385 mL/Ha)
Wild Oats, Green Foxtail, Yellow Foxtail, Barnyard Grass	(PUMA* 120 SUPER at 770 mL/ha)
Broadleaf weeds controlled or suppressed by ROTAM TT HERBICIDE alone	
Broadleaf weeds controlled by MCPA Ester 500 at 0.84 L/Ha, <b>OR</b> Volunteer imazamox and imazethapyr tolerant canola (e.g., Clearfield* canola) (2-4 leaf stage) when MCPA Ester 500 is applied at 0.56L/ha.	

**ROTAM TT HERBICIDE + LONTREL\* 360 or CT MIX 360 + 2,4-D ESTER or MCPA ESTER**

**Spring Wheat (Excluding Durum) and Barley Only.  
For Use in Western Canada Only.**

**APPLY:**

ROTAM TT HERBICIDE	at 20 grams per hectare
<b>plus</b>	
LONTREL* 360 or CT MIX 360	at 0.21 litres per hectare
<b>plus</b>	
MCPA Ester (500 g/L)	at 0.84 litres per hectare
<b>or</b>	
2,4-D Ester (600 g/L)	at 0.7 litres per hectare

Add a recommended non-ionic surfactant such as AGRAL\* 90, AG-SURF\* or CITOWETT® PLUS at a rate of 0.2% of the final spray volume (i.e., 2.0 litres per 1000 litres of spray solution).

See "Mixing Instructions" section of the label.

**WEEDS CONTROLLED:**

- Canada thistle†
- Lady's thumb
- Perennial sow thistle
- Stinkweed
- Volunteer canola
- Wild buckwheat
- Wild mustard

† Provides seasonal control of Canada thistle

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**WEEDS SUPPRESSED:**

Cleavers

PLUS: all other broadleaf weeds controlled or suppressed by ROTAM TT HERBICIDE alone at 20 grams per hectare. Refer to the MCPA Ester or 2,4-D Ester labels for additional broadleaf weeds controlled at the rates recommended above. Consult the LONTREL\* or CT MIX 360 Herbicide and 2,4-D Ester or MCPA Ester labels for additional application instructions, use precautions, and other label restrictions.

DO NOT USE ON OATS.

**ROTAM TT HERBICIDE + CURTAIL\* M**

**Spring Wheat (excluding Durum) and Spring Barley Only.  
For Use in the Prairie Provinces and Interior (including Peace River Region) of British Columbia Only.**

APPLY:

ROTAM TT HERBICIDE	20 grams per hectare
<b>plus</b>	
CURTAIL* M	1.5 litres per hectare
<b>plus</b>	
a recommended surfactant	at 2 litres per 1,000 litres of spray volume

See "Mixing Instructions" section of the label for proper mixing/application instructions. Ensure that ROTAM TT HERBICIDE is completely in suspension in the spray tank before adding CURTAIL\*M.

Apply the tank mix from the full 3-leaf stage of spring wheat and spring barley. Consult the CURTAIL\* M label for additional application instructions and use precautions.

**WEEDS CONTROLLED:**

Canada thistle<sup>†</sup>  
Wild buckwheat<sup>††</sup>

PLUS all other broadleaf weeds controlled or suppressed by ROTAM TT HERBICIDE alone at 20 grams per hectare.

<sup>†</sup> Canada thistle: Apply ROTAM TT HERBICIDE plus CURTAIL\* M plus a recommended surfactant postemergence after all the thistles have emerged, and are actively growing. For best control, apply when thistles are no larger than 15 cm tall, before bud stage and before canopy prevents thorough coverage of thistles. Later emerging thistles will not be controlled.

<sup>††</sup> Wild buckwheat: Apply ROTAM TT HERBICIDE plus CURTAIL\* M plus a recommended surfactant to actively growing wild buckwheat in the cotyledon to 5 leaf stage. Under stress conditions such as dry weather, control may be reduced. Large plants may regrow after treatment.

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### ROTAM TT HERBICIDE + ACCORD\* DF HERBICIDE

**SPRING WHEAT (including Durum) AND SPRING BARLEY (grown for feed purposes only). Not Underseeded to Forages.**

**For Use in the Prairie Provinces and Interior (including Peace River Region) of British Columbia Only**

APPLY:

ROTAM TT HERBICIDE	at 20 grams per hectare
<b>plus</b>	
ACCORD* DF Herbicide	At 67 <b>OR</b> at 135-165 grams per hectare
<b>plus</b>	
MERGE* adjuvant	at 1.0% v/v (10 litres per 1000 litres spray volume)

A non-ionic surfactant is NOT required when ROTAM TT HERBICIDE is tank mixed with ACCORD\* DF Herbicide plus the MERGE\* adjuvant.

Make application when crop is in the 2-5 leaf stage. Use the 165 grams per hectare rate of ACCORD\* DF Herbicide when green foxtail is the target weed. Thorough coverage of foliage is important for consistent weed control. Do not apply this tank mixture more often than once every two years. Prior to use, consult the ACCORD\* DF Herbicide label for additional rotational cropping restrictions, application instructions, use precautions and other restrictions. Do not graze the treated crops or cut for hay within 77 days of application.

<b>WEEDS CONTROLLED WHEN ACCORD* DF HERBICIDE IS USED AT 135-165 GRAMS/HA</b>	<b>APPLICATION TIMING</b>
Green Foxtail	1-5 leaf, 2 tillers
Barnyard Grass	1-5 leaf
Volunteer Flax	1-8 cm
Cleavers	1-4 whorls
Annual Sowthistle	1-4 leaf
PLUS: Weeds controlled or suppressed by ROTAM TT HERBICIDE alone	

Refer to the ACCORD\* DF Herbicide label for additional information on appropriate weed staging at application.

Do not graze the treated crops or cut for hay within 77 days (spring wheat, durum) or 80 days (spring barley) of application.

<b>WEEDS CONTROLLED WHEN ACCORD* DF HERBICIDE IS USED AT 67 GRAMS/HA</b>	<b>APPLICATION TIMING</b>
Cleavers	1-3 whorls
Annual Sowthistle	1-4 leaf
PLUS: Weeds controlled or suppressed by ROTAM TT HERBICIDE alone	

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### ROTAM TT HERBICIDE + ACCORD\* DF HERBICIDE + PUMA\* 120 SUPER

**SPRING WHEAT (Including Durum) AND SPRING BARLEY (grown for feed purposes only). Not Underseeded to Forages.**

**For Use in the Prairie Provinces and Interior (including Peace River Region) of British Columbia Only**

#### Apply

ROTAM TT HERBICIDE	20 grams per hectare
Accord* DF Herbicide	67 grams per hectare
Puma* 120 Super	0.77 Litres per hectare

Merge\* adjuvant is NOT required when ROTAM TT HERBICIDE and Accord\* DF Herbicide are tank mixed with Puma\* 120 Super.

Apply the ROTAM TT HERBICIDE + Accord\* DF Herbicide + Puma\* 120 Super tank mix to spring and durum wheat at the 2 to 5-leaf stage or to barley at the 2 to 4-leaf stage. Apply the tank mix to annual grasses in the 1-6 leaf stage (up to emergence of third tiller), or to cleavers in the 1-4 whorl. Consult the Accord\* DF Herbicide and Puma\* 120 Super labels for additional information on appropriate weed staging, application instructions, environmental and use precautions.

#### WEEDS CONTROLLED:

Weeds controlled or suppressed by ROTAM TT HERBICIDE alone
Green Foxtail
Wild Oats
Barnyard Grass
Cleavers

Do not graze the treated crops or cut for hay within 77 days (spring wheat, durum) or 80 days (spring barley) of application.

### ROTAM TT HERBICIDE + ATTAIN\* HERBICIDE TANK MIX

**For Use on Spring Wheat (excluding Durum), and Spring Barley Only. Not Underseeded to Legumes.**

**For Use in the Prairie Provinces and Interior (including Peace River Region) of British Columbia Only**

#### APPLY:

ROTAM TT HERBICIDE	at 20 grams per hectare
<b>plus</b>	
ATTAIN* Herbicide Tank Mix	Attain A (fluroxypyr) at 0.30 L/ha
	Attain B (2,4-D ester) at 0.50 L/ha
<b>plus</b>	
Adjuvants: AGRAL* 90, AG- SURF*, or CITOWETT*	at 2L/1000 litres of spray solution

Apply from the 4-leaf to flag-leaf stage of spring wheat or spring barley and seedling stage to 4-leaf/whorls of weed.

Mixing order is ROTAM TT HERBICIDE, then Attain\* A then Attain\* B then adjuvant. Refer to MIXING DIRECTIONS section for general instructions. Use a spray volume of 100 L/ha.

Do not permit lactating dairy animals to graze fields within 7 days of application. Do not harvest forage or cut hay within 30 days after application. Withdraw meat animals from treated fields at least 3 days before slaughter. Do not harvest the treated mature crop within 60 days after application. Consult the Attain\* Herbicide Tank Mix labels for additional application instructions and use precautions.

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**WEEDS CONTROLLED:**

Weeds controlled or suppressed by ROTAM TT HERBICIDE alone  
Cleavers (excluding Group 2 resistant cleavers).

**ROTAM TT HERBICIDE + LONTREL\* 360 or CT MIX 360**

**For Use on Spring Wheat (excluding Durum), and Spring Barley Only  
For Use in the Prairie Provinces and Interior (including Peace River Region) of British Columbia Only**

APPLY:

ROTAM TT HERBICIDE	at 20 grams per hectare
<b>plus</b>	
LONTREL* 360 or CT MIX 360	at 0.21 litres per hectare
<b>plus</b>	
a recommended surfactant	at 2 litres per 1000 litres of spray volume

See "Mixing Instructions" section of the label for proper mixing/application instructions. Ensure that ROTAM TT HERBICIDE is completely in suspension in the spray tank before adding LONTREL\* 360 or CT MIX 360.

Apply the tankmix from the full 3 leaf stage to the flag leaf stage of spring wheat and barley. Consult the LONTREL\* 360 or CT MIX 360 label for additional application instructions and use precautions.

**WEEDS CONTROLLED:**

Canada Thistle (seasonal control) †  
Wild Buckwheat††

PLUS: All other broadleaf weeds controlled or suppressed by ROTAM TT HERBICIDE alone at 20 grams/ha.

†Canada Thistle (seasonal control): Apply ROTAM TT HERBICIDE plus LONTREL\* 360 or CT MIX 360 plus a recommended surfactant postemergent, after all the thistles have emerged, and are actively growing. For best control, apply when thistles are no larger than 15 cm tall, before bud stage and before crop canopy prevents thorough coverage of thistles. Later emerging thistles will not be controlled.

††Wild Buckwheat: Apply ROTAM TT HERBICIDE plus LONTREL\* 360 or CT MIX 360 plus a recommended surfactant to actively growing wild buckwheat in the cotyledon to 5-leaf stage. Under stress conditions such as dry weather, control may be reduced. Large plants may regrow after treatment.

**ROTAM TT HERBICIDE + BANVEL II\* HERBICIDE**

**For Use on Spring Wheat (excluding Durum), and Spring Barley Only. Not Underseeded to Forages.  
For Use in the Prairie Provinces and Interior (including Peace River Region) of British Columbia Only**

Apply from the 2-5 leaf stage of spring wheat or spring barley and seedling stage to 8 leaf stage of kochia.

ROTAM TT HERBICIDE	20 grams/hectare
Banvel II* Herbicide	0.110 litres/hectare
Adjuvants: Agral*90,Ag-surf* or Citowett* Plus	2 litres/1000 litres of spray solution

Mixing order is ROTAM TT HERBICIDE then Banvel II\* Herbicide then adjuvant. Refer to the MIXING DIRECTIONS section for general instructions. Use minimum volume of 55 L/ha.

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Do not permit lactating dairy animals to graze fields within 7 days after application. Consult the Banvel II\* Herbicide label for additional application instructions and use precautions.

**WEEDS CONTROLLED:**

Broadleaf weeds controlled or suppressed by ROTAM TT HERBICIDE  
Kochia, including Group 2 resistant kochia

**ROTAM TT HERBICIDE + 2,4-D AMINE OR ESTER + EVEREST 70 WDG**

**For Use on Spring Wheat (Including Durum) Only**

**For Use in the Prairie Provinces and Interior (including Peace River Region) of British Columbia Only**

Apply one of the following tank mixes from the 1 to 6-leaf (1 to 4 leaves on main stem, plus 2 tillers) growth stage of the crop. For wild oats, green foxtail and volunteer tame oats, apply from the 1 to 6-leaf (1 to 4 leaves on main stem, plus 2 tillers):

TANK MIX COMPONENTS AND APPLICATION RATES								
Component 1		Component 2		Component 3		Component 4		WEEDS CONTROLLED - Broadleaf weeds controlled or suppressed by ROTAM TT HERBICIDE alone plus:
ROTAM TT HERBICIDE	20 g/ha	Everest* 70 WDG	43 g/ha	Agral * 90 or Agsurf*	0.25% v/v			Wild oats, green foxtail, volunteer tame oats.  Use 43 g/ha when wild oat infestations are greater than 100 plants/m <sup>2</sup> or when plants are not actively growing due to poor environmental conditions.

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ROTAM TT HERBICIDE	20 g/ha	Everest* 70 WDG	43 g/ha	2,4-D Amine or Ester	up to 560 g ae/ha	Agral * 90 or Agsurf*	0.25% v/v	Wild oats, green foxtail and volunteer tame oats.  Use 43 g/ha when wild oat infestations are greater than 100 plants/m <sup>2</sup> or when plants are not actively growing due to poor environmental conditions.
ROTAM TT HERBICIDE	20 g/ha	Everest* 70 WDG	28.5 g/ha	2,4-D Amine or Ester	up to 560 g ae/ha	Agral * 90 or Agsurf*	0.25% v/v	Wild oats and volunteer tame oats only.  Use 28.5 g/ha when wild oat populations are below 100 plants/m <sup>2</sup> and when plants are actively growing.
ROTAM TT HERBICIDE	20 g/ha	Everest* 70 WDG	21.5 g/ha	2,4-D Amine or Ester	up to 560 g ae/ha	Agral * 90 or Agsurf*	0.25% v/v	Green foxtail only

Mixing order is Everest 70 WDG then ROTAM TT HERBICIDE then 2,4-D Amine or Ester then adjuvant. Refer to MIXING DIRECTIONS section for general instructions.

Observe minimum interval to harvest of 80 days after treatment. For black, dark brown and gray-wooded soil zones only, field peas may be grown the year following Everest\* application in fields where precipitation has been normal or above normal (10 year average) during the growing season, and where organic matter content is above 4% and pH below 7.5. Re- crop spring wheat only in brown soil zone. Consult the 2,4-D Amine or Ester and Everest\* 70 WDG labels for additional information on rotational cropping restrictions, application instructions, use precautions and other restrictions.

**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 Rotam LTD under the User Requested Minor Use Label Expansion program. For these uses, Rotam LTD 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.

**SEEDLING AND ESTABLISHED GRASS SPECIES FOR FORAGE AND SEED PRODUCTION**

For broadleaf weed control, apply 20 grams of ROTAM TT HERBICIDE per hectare with AGRAL\* 90, AG-SURF\*, CITOWETT\* PLUS or LIBERATE at 2.0 litres per 1,000 litres of spray solution. (See "Mixing Instructions" section of the label).

Apply postemergence to the following Seedling or Established Grasses for Forage or Seed Production:

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Creeping Red Fescue  
Crested Wheatgrass  
Intermediate Wheatgrass  
Meadow Bromegrass  
Northern Wheatgrass  
Orchard Grass  
Pubescent Wheatgrass  
Slender Wheatgrass  
Smooth Bromegrass  
Streambank Wheatgrass  
Tall Fescue  
Tall Wheatgrass  
Western Wheatgrass

Apply postemergence to the following Established Grasses for Forage or Seed Production:

Kentucky Bluegrass

ROTAM TT HERBICIDE will control the broadleaf weeds listed on the label for ROTAM TT HERBICIDE alone. For best results apply to emerged, young, actively-growing weeds that are less than 10 cm tall or across. Thorough coverage of target weeds is essential. Apply with ground equipment only. Make only one application per growing season. The above grasses may not be grazed by or fed to livestock within 7 days of application. Please refer to the appropriate sections of this label for additional use precautions, application and/or mixing instructions.

#### **MIXING INSTRUCTIONS:**

1. Select a spray volume that will ensure thorough coverage and uniform spray pattern. Use a minimum of 55-L spray volume per hectare. If tankmixing with other herbicides, always consult the label of the tank mix partner(s) for minimum spray volume requirements and apply the tank mixture using a water volume recommended for all products.
2. Fill the spray tank 1/4 – 1/3 full with fresh water and start agitation.
3. Add the required amount of ROTAM TT HERBICIDE to the tank. Make sure all of the ROTAM TT HERBICIDE is in suspension before proceeding to the next step. Continuous agitation is recommended throughout the entire mixing procedure to ensure products are completely dissolved and/or in suspension.
4. If using ROTAM TT HERBICIDE alone, a recommended surfactant such as AGRAL\* 90, AG-SURF\* or CITOWETT® PLUS must be added to the spray mixture at a rate of 2 litres per 1000 litres of spray solution.
5. Specific Tank Mix Instructions:  
If tankmixing with MCPA, 2,4-D, CURTAIL\* M, LONTREL\* 360 or CT Mix 360, add the required amount of MCPA, 2,4-D, CURTAIL\* M, LONTREL\* 360 or CT Mix 360 to the tank while maintaining agitation. Once the herbicide is completely in suspension, add a recommended surfactant such as AGRAL\* 90, AG-SURF\* or CITOWETT® PLUS at 2 L per 1000 L spray solution.  
Anti-foaming agents may be required.

If tankmixing with PUMA\* SUPER or MCPA + PUMA\* SUPER, add the required amount of PUMA\* SUPER and/or MCPA while maintaining agitation. DO NOT ADD A SURFACTANT.



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If tank mixing with ASSERT\* 300 Herbicide or ASSERT\*300 Herbicide + MCPA: once ROTAM TT HERBICIDE is completely in suspension, add the required amount of Spray Water pH Adjuster and agitate until dissolved. Add the required amount of ASSERT\* 300 Herbicide while maintaining agitation. If adding MCPA, add it to the tank last. Addition of surfactant is not required with this mixture.

When mixing with LONTREL\* 360 + 2,4-D Ester or MCPA Ester, mix ROTAM TT HERBICIDE first in fresh water, then add the required amount of LONTREL\* 360 or CT Mix 360 followed by MCPA or 2,4-D. Add the recommended non-ionic surfactant such as AGRAL\* 90, AG-SURF\* or CITOWETT® PLUS last, at a rate of 2 litres per 1000 litres spray solution.

If tankmixing with YUMA GL LIQUID EC HERBICIDE add the required amount of YUMA GL LIQUID EC HERBICIDE after ROTAM TT HERBICIDE is completely in suspension, and maintain agitation. Add the MERGE or AMIGO adjuvant at 0.5 %v/v. DO NOT ADD AN ADDITIONAL NON-IONIC SURFACTANT.

If tankmixing with ARROW 240 EC add the required amount of ARROW 240 EC after ROTAM TT HERBICIDE is completely in suspension, and maintain agitation. Add the ADAMA X-ACT adjuvant at 0.5 %v/v. DO NOT ADD AN ADDITIONAL NON-IONIC SURFACTANT.

When tankmixing with ACCORD\* DF Herbicide, add the required amount of ROTAM TT HERBICIDE and ACCORD\* to the tank. When these products have completely dissolved and are in suspension, add the MERGE\* adjuvant at the appropriate rate last. Do not add an additional non-ionic surfactant.

6. Continue to fill tank and maintain agitation for at least 5 minutes to ensure thorough mixing.
7. On repeat loads, ensure that the amount of spray solution left in the tank from the previous load is less than 10% of the volume about to be mixed.
8. Use the spray preparation of ROTAM TT HERBICIDE within 24 hours or product degradation may occur.  
Use spray preparation containing ASSERT\* 300 Herbicide within 12 hours or product degradation may occur. If spray solution is left standing without agitation, thoroughly agitate and re-suspend any settled ROTAM TT HERBICIDE before resuming the spraying operation.

The volumetric measuring guide to measure ROTAM TT HERBICIDE is to be used only as a guide. For precise measurement use scales calibrated in grams.

#### **APPLICATION INSTRUCTIONS:**

Apply the spray mixture uniformly with properly calibrated ground equipment only. Ensure thorough coverage and a uniform spray pattern. Flat fan nozzles are recommended (minimum 55 litres spray volume per hectare). Use 50 mesh filter screens or larger (metal or nylon). A spray pressure of 210-275 kPa is recommended. Continuous agitation is required to keep ROTAM TT HERBICIDE in suspension. Apply uniformly. Avoid overlapping and shut off spray boom while starting, turning, slowing or stopping to prevent crop injury from over application.

#### **SPRAYER CLEANUP:**

To avoid subsequent injury to crops other than wheat, barley or oats, immediately after spraying and prior to spraying other crops, thoroughly remove all traces of ROTAM TT HERBICIDE from mixing and spray equipment as follows:

1. Drain tank; then flush tank, boom and hoses with clean water for a minimum of ten minutes. Visually inspect tank to ensure removal of all visible residues of ROTAM TT HERBICIDE. If necessary, repeat Step 1. DO NOT CLEAN SPRAYER NEAR WELL OR WATER SOURCE OR NEAR TO DESIRABLE VEGETATION.
2. Fill the tank with clean water, then add 1 litre household AMMONIA (containing minimum of 3%

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ammonia) per 100 litres of water. Flush solution through boom and hoses, and then add more water to completely fill tank. Allow to sit for 15 minutes with agitation. Again flush the hoses, boom and nozzles with the cleaning solution and drain tank.

3. Remove the nozzles and screens and clean separately in a bucket containing cleaning agent and water.
4. Repeat Steps 2 and 3.
5. Thoroughly rinse the tank with clean water for a minimum of 5 minutes, flushing water through the hoses and boom.

**CAUTION:** Do not use ammonia with chlorine bleach. Using ammonia with chlorine bleach will release a gas with a musty chlorine odour which may cause eye, nose, throat, and lung irritation. Do not clean equipment in an enclosed area.

#### **RESISTANCE-MANAGEMENT RECOMMENDATIONS:**

For resistance management, ROTAM TT HERBICIDE is a Group 2 herbicide. Any weed population may contain or develop plants naturally resistant to ROTAM TT HERBICIDE and other Group 2 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 used of ROTAM TT HERBICIDE or other Group 2 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 your local Rotam representative at 1-866-927-6826 for further information.

#### **USE PRECAUTIONS:**

- ◆ Applications to wheat, barley or oats that are stressed by severe weather conditions, frost, low fertility, drought, water logged soil (soils at or near field capacity), disease or insect damage may result in crop injury. Drought, disease or insect damage following application may also result in crop injury.
- ◆ Do not apply to irrigated land where tail water will be used to irrigate cropland.

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- ◆ Do not contaminate irrigation water.
- ◆ Do not apply to crops underseeded to legumes or grasses as injury to forage may result.
- ◆ Do not remove soil from treated fields for use on lawns, in gardens or for back fill.
- ◆ ROTAM TT HERBICIDE should be applied only with water as a carrier. Other carriers may accelerate breakdown of the product and reduce its effectiveness.
- ◆ Do not exceed a total of 20 g of ROTAM TT HERBICIDE per hectare per crop year.
- ◆ Do not plant to any crop until two months after application.
- ◆ Wheat, barley or oats may not be grazed by or fed to livestock within 7 days of application.
- ◆ Under certain conditions (such as heavy rainfall, prolonged cool weather, frost conditions, wide fluctuations in day/night temperatures) temporary lightening in crop colour and occasionally a slight reduction in crop height may occur.
- ◆ Do not use on highly variable soils that have large gravelly or sandy areas, eroded knolls, or calcium deposits.
- ◆ Limit use of ROTAM TT HERBICIDE to currently licensed varieties of wheat (spring, durum, winter), barley, oats and SU tolerant canola. Consult Rotam prior to use on unlicensed varieties for crop tolerance information. **DO NOT USE ON LEGER BARLEY AND BELVEDERE WHEAT.**

Overspray or drift to important wildlife habitats such as shelterbelts, wetlands, sloughs or dry slough borders and woodlots should be avoided.

**STORAGE:**

Store this product away from food or feed. Not for use or storage in or around the home. Keep container closed.

**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:

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

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

**If this is a refillable container:**

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.

**If this is a returnable container:**

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

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**For all package types:**

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

**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