

(Container)

**GROUP 4 HERBICIDE**

**RUSH® 24 ALL IN  
Herbicide**

Emulsifiable Concentrate

RUSH® 24 ALL IN provides postemergence control of a broad spectrum of broadleaf weeds including cleavers and kochia in spring wheat, durum wheat, and spring barley.

COMMERCIAL

WARNING, CONTAINS THE ALLERGEN SOY

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

ACTIVE INGREDIENT:

fluroxypyr, present as 1-methylheptyl ester.....90 g/L  
2,4-D, present as 2-ethylhexyl ester.....360 g/L

REGISTRATION NO. 34878 PEST CONTROL PRODUCTS ACT



**WARNING                      POISON**  
EYE AND SKIN IRRITANT  
POTENTIAL SKIN SENSITIZER

NET CONTENTS: 1 – 1050 L

ADAMA Agricultural Solutions Canada Ltd.  
300 – 191 Lombard Avenue  
Winnipeg, MB R3B 0X1  
1-855-264-6262

For emergency medical help call PROPBARMA at 1-877-250-9291 (24 hours a day)  
For spill, leak or fire call INFOTRAC at 1-800-535-5053 (24 hours a day)

## **PRECAUTIONS**

### **HARMFUL IF SWALLOWED.**

### **KEEP OUT OF REACH OF CHILDREN.**

### **DO NOT APPLY BY AIR.**

May irritate eyes and causes skin irritation. Avoid contact with eyes. **DO NOT** get on skin. Potential skin sensitizer. Avoid breathing spray mist.

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

**For non-crop areas: DO NOT** enter or allow worker entry into treated areas until sprays have dried.

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

**DO NOT** use in residential areas. Residential areas are defined as any use site where bystanders or the public, including children, could be exposed during or after application. This includes areas in and around homes, schools, public buildings or any other areas where they could be exposed

Apply only when potential for drift to areas of human habitation or 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.

## **PROTECTIVE CLOTHING AND EQUIPMENT**

### **Application with Groundboom**

- Wear coveralls over a long-sleeved shirt, long pants, chemical-resistant gloves, socks and chemical-resistant footwear during mixing, loading, groundboom application, clean-up and repair.
- Gloves are not required during application within a closed cab.

### **Application Using Handheld Equipment**

- Wear coveralls over a long-sleeved shirt, long pants, chemical-resistant gloves, socks and chemical-resistant footwear during mixing, loading, application, clean-up and repair.
- For application using mechanically-pressurized handheld equipment:
  - Mixers/loaders/applicators must also wear a respirator with a NIOSH-approved organic-vapour-removing cartridge (with a prefilter) approved for pesticides OR a NIOSH-approved canister approved for pesticides when handling more than 13.9 L of RUSH® 24 ALL IN per day.
  - **DO NOT** handle more than 22.2 L of RUSH® 24 ALL IN per day.

### **Mixing – Transfer System**

- When handling more than 736 L of RUSH® 24 ALL IN per day, workers must also use a closed system.
- A closed system means removing a pesticide from its original container, rinsing, mixing,

diluting, and transferring the pesticide through connecting hoses and couplings that are sufficiently tight to prevent exposure to the pesticide.

### **OPERATOR USE PRECAUTIONS**

- Wear freshly laundered clothing and clean protective equipment daily.
- Rinse gloves before removal.
- Wash hands with soap and water before eating, drinking, using tobacco or using the toilet.
- If herbicide penetrates clothing, remove immediately; then wash thoroughly and put on clean clothing. Throw away clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate.
- After using this product, remove clothing and launder separately, and promptly and thoroughly wash hands and exposed skin with soap and water. Follow manufacturer's instructions for cleaning personal protective clothing and equipment. If no such instructions for washables are provided, use detergent and hot water. Keep and wash personal protective equipment separate from household laundry.
- After work, remove all clothing and shower immediately using soap and water.

### **PHYSICAL OR CHEMICAL HAZARDS**

**COMBUSTIBLE.** Do not use or store near heat or open flame.

### **FIRST AID**

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

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

**If 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.

### **TOXICOLOGICAL INFORMATION**

No specific antidote. Employ supportive care. Treatment should be based on judgement of the physician in response to reactions of the patient. This product may cause mild irritation to the eyes. Overexposure to 2,4-D may cause coughing, burning, dizziness or temporary loss of muscle coordination. Other possible effects of overexposure include fatigue, muscle weakness or nausea. Treat symptomatically. This product contains petroleum distillates. Vomiting may cause aspiration pneumonia.

### **AGRICULTURAL CHEMICAL**

Do not ship or store with food, feeds, drugs or clothing.

## **ENVIRONMENTAL PRECAUTIONS**

TOXIC to non-target terrestrial plants and aquatic organisms. 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.

## **LEACHING**

This product demonstrates the properties and characteristics associated with chemicals detected in groundwater. The use of this product in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

## **STORAGE**

Store in original containers in a secure, dry heated storage. If product is frozen, bring to room temperature and agitate before use. Store this product away from food or feed. If containers are damaged or spill occurs, use the product immediately or contain the spill with absorbent materials and dispose of waste.

## **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.
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### **Refillable Containers:**

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purpose.

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.

**(Booklet)**

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purpose.

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.

### **GENERAL INFORMATION**

RUSH® 24 ALL IN is a selective postemergence herbicide for the control of broadleaf weeds in spring wheat, durum wheat, and spring barley (not underseeded to legumes). RUSH® 24 ALL IN provides control of hard-to-kill annual broadleaf weeds such as cleavers and kochia (including populations resistant to Group 2 herbicides). The components of RUSH® 24 ALL IN move within the plant to control exposed and underground plant tissues. It mimics naturally occurring plant hormones which control weeds by disrupting normal plant growth patterns. Symptoms of effect include epinasty (twisting of the stems) and swollen nodes.

### **GENERAL USE PRECAUTIONS**

**READ THE ENTIRE LABEL BEFORE USE. FAILURE TO FOLLOW LABEL INSTRUCTIONS MAY RESULT IN ERRATIC WEED CONTROL OR CROP DAMAGE. DO NOT APPLY TO CROPS UNDERSEEDDED WITH LEGUMES.**

#### **To minimize spray drift to non-target areas**

1. Minimize drift by using sufficient spray volume to ensure coverage with ASAE coarse dropletsize spray.
  2. Keep ground-driven spray booms as low as possible and not exceeding 60 cm above the target surface.
  3. Spray when wind is less than 8 km/hr.
  4. Do not spray in dead calm near sensitive plants. The “cloud” of suspended droplets may drift onto sensitive plants when the wind comes up. Spray only when wind is blowing away from a sensitive crop, shelterbelt or garden.
- Extreme growing conditions such as drought or near freezing temperatures prior to, at and following time of application may reduce weed control and increase the risk of crop injury at all stages of growth.
  - Wet foliage at the time of application may result in reduced weed control.
  - Over-application may result in crop injury.
  - Make only 1 application per year.
  - Do not apply through any type of irrigation system.

#### **Sprayer clean-out**

To avoid injury to desirable plants, thoroughly clean equipment used to apply this product before re-use or using it to apply other chemicals.

1. Immediately after spraying, completely drain the sprayer tank. Any contamination on the outside of the spraying equipment should be removed by washing with clean water.
2. First rinse:
  - Spray the inside of tank with clean water and fill the sprayer with at least one tenth of

- the spray tank volume.
- Agitate and circulate for 15 minutes, and flush through booms and hoses.
  - Remove end caps or open ball valves on the ends of each boom section, and flush solution through the boom ends to ensure there is no spray solution trapped between the boom end and the nozzles.
  - Drain tank completely.
3. Second rinse:
- Fill the tank with clean water.
  - Add All Clear Spray Tank Decontaminator as per manufacturer's recommendations while filling the tank with clean water.
  - Agitate and then flush the boom and hoses with the cleaning solution. Top up with water making sure the tank is completely full. Allow to stand for 15 minutes with agitation. Flush the solution out of the spray tank through the spray booms. Remove end caps or open ball valves on the ends of each boom section, and flush solution through the boom ends to ensure there is no spray solution trapped between the boom end and the nozzles.
  - If possible, let the solution stand in the sprayer tank and booms for an extended period of time, overnight if possible.
  - After flushing the boom and hoses, drain tank completely.
  - Remove nozzles and screens and clean separately with a cleaning agent or an ammonia solution (100 mL in 10 L water).
4. Third rinse:
- Rinse the tank with clean water and flush through the boom and hoses using at least one tenth of the spray tank volume.
  - Remove end caps or open ball valves on the ends of each boom section, and flush solution through the boom ends to ensure there is no spray solution trapped between the boom end and the nozzles.
  - Drain tank completely.

### **SENSITIVE PLANTS**

Do not apply RUSH® 24 ALL IN directly to, or otherwise permit it to come in direct contact with susceptible crops or desirable plants including alfalfa, edible beans, canola, flowers and ornamentals, lentil, lettuce, peas, potatoes, radishes, soybeans, sugar beets, sunflowers, tomatoes or tobacco.

### **CROP ROTATIONS**

Fields previously treated with RUSH® 24 ALL IN can be seeded the following year to barley, canola, flax, forage grasses, lentils, mustard, oats, peas, rye, and wheat or fields can be summerfallowed.

### **PRE-HARVEST/GRAZING INTERVALS**

- Do not permit lactating dairy animals to graze fields within 7 days after 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.

### **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 ADAMA Agricultural Solutions Canada Ltd. at 1-855-264-6262 for information before mixing any pesticide or fertilizer that is not specifically recommended on this label.

### **DIRECTIONS FOR USE**

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.

### **Use Precautions**

Apply only when meteorological conditions at the treatment site allow for complete and even coverage.

### **Operator Precautions**

Loading of premixed chemicals with a closed system is permitted.

The mixer/loaders must wear coveralls over a long-sleeved shirt, long pants, chemical-resistant gloves, socks, chemical-resistant footwear and protective eyewear (goggles or face shield) during mixing, loading, clean-up and repair.

All personnel on the job site must wash hands and face thoroughly before eating and drinking. Protective clothing should be laundered regularly.

### **Product Specific Precautions**

Read and understand the entire label before opening this product. If you have questions, call the manufacturer at 1-855-264-6262 or obtain technical advice from the distributor or your provincial agricultural representative. Application of this specific product must meet and/or conform to the following:

- The interaction of many equipment-and-weather-related factors determine the potential for spray drift. Users are responsible for considering all these factors when making decisions.

**SPRAY BUFFER ZONES**

A spray buffer zone is NOT required for uses with hand-held application equipment permitted in this label.

For application to rights-of-way, spray buffer zones for protection of sensitive terrestrial habitats are not required; however, the best available application strategies which minimize off-site drift, including meteorological conditions (e.g., wind direction, low wind speed) and spray equipment (e.g., coarse droplet sizes, minimizing height above canopy), should be used. However, applicators must observe the specified spray buffer zones for protection of sensitive aquatic habitats.

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) and estuarine/marine habitats.

Method of application	Crop	Spray Buffer Zones (metres) Required for the Protection of:				
		Freshwater Habitat of Depths:		Estuarine/marine Habitat of Depths:		Terrestrial habitat
		Less than 1 m	Greater than 1 m	Less than 1 m	Greater than 1 m	
Field sprayer	Spring wheat, durum wheat, and spring barley (RUSH® 24 ALL IN alone or with tank-mix with 140 g a.e./ha 2,4-D ester herbicide)	1	0	1	1	3
	Rangeland, permanent pasture, industrial and non-crop areas	1	1	1	1	5*

\* Spray buffer zones for the protection of terrestrial habitats are not required for use on rights-of-way including railroad ballast, rail and hydro rights-of-way, utility easements, roads, and training grounds and firing ranges on military bases.

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.

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.

## **RUSH® 24 ALL IN ALONE**

Apply RUSH® 24 ALL IN in a uniform spray with ground application equipment (see Application Directions sections) containing 1.1 L/ha of RUSH® 24 ALL IN.

### **Timing of Application**

Apply postemergence when weeds are in the seedling stage (2-4 leaf, unless otherwise noted), and actively growing, and when spring wheat, durum wheat and spring barley are in the 4-leaf to flag-leaf stage.

Application before the 4-leaf stage of wheat and barley may cause severe twisting of leaves and leaf, stem and head deformities which may reduce yield up to 10%. Do not apply later than the flag-leaf stage. Maximum 1 application per year.

### **Crops Registered**

spring wheat  
durum wheat  
spring barley

### **Weeds Controlled**

bluebur	hemp-nettle (2-6 leaf stage)	round-leaved mallow (1-6 leaf)
burdock	hoary cress*	shepherd's-purse
canola (volunteer)	kochia**	stork's-bill (1-8 leaf)
cleavers (1-8 whorls)	lamb's-quarters	stinkweed
clovers (sweet)	mustards (except green tansy,	sunflower (annual)
cocklebur	dog & grey tansy)	vetch
flixweed	plantain	wild radish
field horsetail*	prickly lettuce	volunteer flax (1-12 cm)
goat's-beard	ragweed	

### **Weeds Suppressed**

common chickweed** (up to 8 cm)	redroot pigweed	sow-thistle (perennial)*
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\*Top growth control only.

\*\*Including biotypes resistant to Group 2 herbicides that inhibit the ALS enzyme.

**NOTE:** RUSH® 24 ALL IN activity is influenced by weather conditions. Optimum activity requires active crop and weed growth. The temperature range for optimum activity is 12°C to 24°C. Reduced activity will occur when temperatures are below 8°C or above 27°C. Frost before application (3 days) or shortly after (3 days) may reduce weed control and crop tolerance. Weed control may be reduced during stress conditions, e.g. drought, heat or cold stress, or if weeds have initiated flowering, or if heavy infestations exist.

## **APPLICATION DIRECTIONS**

### **Ground Application**

Using ground equipment, apply RUSH® 24 ALL IN alone or with tank mix partners as a broadcast treatment. Apply RUSH® 24 ALL IN alone at the recommended rates in a spray volume of 100 L

water/ha. When tank mixing refer to the label of the tank mix partner label for additional instructions, water volumes, precautions and weeds controlled.

### **TANK-MIX OF RUSH® 24 ALL IN WITH 2,4-D ESTER HERBICIDE**

To control or suppress the following additional weeds apply a uniform spray containing 1.1 L/ha of RUSH® 24 ALL IN and 140 g a.e./ha of 2,4-D ester herbicide (equivalent to 0.2 L/ha of 2,4-D LV 700) in a total spray volume of 50-100 L water/ha for ground application.

#### **Additional Weeds Controlled**

Blue lettuce*	gumweed	redroot pigweed
dandelion**	hairy galinsoga	Russian thistle
docks	hedge bindweed	smartweed
dog mustard	lady's-thumb	tansy mustard
field bindweed*	leafy spurge*	tartary buckwheat
field peppergrass	oak-leaved goosefoot	

#### **Additional Weeds Suppressed**

common chickweed*** (up to 8 cm)	sow-thistle (perennial) *
Canada thistle*	sow-thistle (annual)

\*Top growth control only.

\*\* Spring rosettes.

\*\*\* Including biotypes resistant to Group 2 herbicides that inhibit the ALS enzyme.

#### **Mixing Instructions**

1. Fill sprayer tank 1/2 full of water.
2. Start sprayer tank agitation.
3. Add the required number of jugs of RUSH® 24 ALL IN.
4. If required, Add the required number of jugs of 2,4-D ester herbicide.
5. Complete filling the sprayer tank with sufficient water to spray 100 L of spray mixture per hectare.
6. Follow sprayer directions and precautions as outlined above, especially when applying next to sensitive crops (e.g., canola and legumes).
7. Follow sprayer clean-up directions as listed.

### **TANK MIXES WITH RUSH® 24 ALL IN FOR ANNUAL GRASS CONTROL**

Tank mixtures of RUSH® 24 ALL IN with other herbicides will provide control of additional weeds. These tank mixtures, excluding Simplicity, may include the additional 2,4-D ester herbicide if necessary. Read all precautions, minimal interval to harvest and directions for use on the RUSH® 24 ALL IN and tank-mix partner labels and follow the more stringent of the two.

**Tank-Mix Combinations with RUSH® 24 ALL IN for Annual Grass Control**

<b>Herbicide Tank-Mix Partner</b>	<b>Crops Registered</b>	<b>Rate of Herbicide Tank-Mix Partner</b>	<b>Adjuvant Rate</b>	<b>Additional Weeds</b>
Liquid Achieve™ Herbicide Marengo® Herbicide	spring wheat durum wheat spring barley	0.5 L/ha	Turbocharge® 0.5 L/100 L of spray volume (0.5% v/v)	green foxtail wild oats
Everest Solupak 70 DF	spring wheat durum wheat	43 g/ha	Refer to Everest Solupak 70 DF label	green foxtail wild oats
Assert® 300 SC	spring wheat durum wheat spring barley	1.3 L/ha 1.6 L/ha	Refer to Assert® 300 SC label	wild oats (1-3 leaf) wild oats (4 leaf)
Simplicity™	spring wheat durum wheat	0.5 L/ha	None required	Barnyard grass (1-5 leaf), Japanese brome (1-6 leaf), Wild oats (up to 4 leaf 2 tiller), Chickweed (up to 10 cm), Red root pigweed (1-8 leaf), Smartweed (1-5 leaf)
Simplicity™ GoDRI™	spring wheat durum wheat	52 - 70 g/ha	None required	Consult label

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

The **DIRECTIONS FOR USE** for the use(s) described in this section of the label were developed by persons other than ADAMA Agricultural Solutions Canada Ltd. (ADAMA) under the User Requested Minor Use Label Expansion program. For these uses, ADAMA 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.

**DIRECTIONS FOR USE**

**SEEDLING AND ESTABLISHED TALL FESCUE GROWN FOR SEED:** Make one application per year, as a ground application only, for control of labelled weeds. Apply from the 4 leaf stage to flag leaf stage in a minimum of 100 L water/ha. Do not harvest for forage or do not cut hay for forage.



**Application rates:** RUSH® 24 ALL IN: 1.1 L/ha alone or in tank-mix with 140 g a.e./ha of 2,4-D ester herbicide (equivalent to 0.2 L/ha of 2,4-D LV 700)

**CONTROL OF LABELLED WEEDS IN SEEDLING AND ESTABLISHED FORAGE GRASSES GROWN FOR SEED**

- Creeping Red Fescue
- Intermediate Wheat
- Grass
- Crested Wheat
- Grass
- Meadow Brome Grass
- Smooth Brome
- Grass
- Timothy

Apply one application per year in a spray volume of 100-200 L/ha to control labelled weeds in seedling (4 leaf to flag leaf) or established forage grasses. Application should be made postemergence when weeds are in the 2-4 leaf stage. Apply in a broadcast spray using a hydraulic boom ground sprayer.

**Application rates:** RUSH® 24 ALL IN: 1.1 L/ha alone or in tank-mix with 140 g a.e./ha of 2,4-D ester herbicide (equivalent to 0.2 L/ha of 2,4-D LV 700)

- Do not harvest for forage or do not cut hay for forage.
- Do not harvest treated crop within 60 days after application.

Refer to the main RUSH® 24 ALL IN label for additional details and instructions, including preharvest intervals, before using.

**READ THE ROTATIONAL CROPPING RESTRICTIONS ON THE FULL LABEL BEFORE USING THIS PRODUCT.**

**RANGELAND, PERMANENT PASTURE, INDUSTRIAL AND OTHER NON-CROP AREAS OF CANADA**

**RUSH® 24 ALL IN Alone**

Apply RUSH® 24 ALL IN for post emergent control of kochia, including ALS resistant biotypes in non- cropland areas including roadsides, rights of way, permanent perennial grass cover areas, and industrial vegetation management areas.

**Kochia Control by RUSH® 24 ALL IN Alone**

Weeds	RUSH® 24 ALL IN Rate (L/ha)
Weeds listed above in crops section plus:	1.6
Kochia* (2 – 8 leaf stage) Suppression	

Weeds listed above in crops section plus:	3.1
Kochia* (2 – 8 leaf stage) Control	

\*Including biotypes resistant to Group 2 herbicides that inhibit the ALS enzyme.

**NOTE:** RUSH® 24 ALL IN activity is influenced by weather conditions. Optimum activity requires active weed growth. The temperature range for optimum activity is 12°C to 24°C. Reduced activity will occur when temperatures are below 8°C or above 27°C. Frost before application (3 days) or shortly after (3 days) may reduce weed control. Weed control may be reduced during stress conditions, e.g. drought, heat or cold stress, or if weeds have initiated flowering, or if heavy infestations exist.

## APPLICATION DIRECTIONS

### Application Timing

Apply when weeds are actively growing. Best results are obtained from applications made to seedling weeds. Only weeds emerged at the time of treatment will be controlled. Extreme growing conditions such as drought or near freezing temperature prior to, at and following time of application may reduce weed control. Foliage that is wet at the time of application may decrease control. RUSH® 24 ALL IN applications are rainfast within 1 hour after application.

### Individual Plant or Spot/Strip Applications

Use the following mixing chart to mix RUSH® 24 ALL IN with enough water to make the correct amount of spray solution. Use equipment designed for individual plant or spot/strip application, such as a backpack sprayer or hose and handgun, to spray weeds. Thoroughly and uniformly wet the foliage of all target plants but not to the point of runoff. Direct spray away from aquatic habitats and non-target terrestrial plants. DO NOT apply this product directly to fresh water habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands), estuaries or marine habitats.

### Mixing Chart

RUSH® 24 ALL IN	Spray Solution (water and herbicide)
16 – 31 MI	10 L
160 – 310 MI	100 L
1600 – 3100 MI	1000 L

Use the higher rate in the rate range for kochia control or when growing conditions are less than favourable. The maximum annual application rate is 3100 MI/ha.

### Restrictions

- **Grazing intervals:** There are no grazing restrictions for livestock following application.
- **Legumes:** Do not apply if the injury to legumes cannot be tolerated. Legumes may be less sensitive to herbicide injury after plant growth is mature and seed has set.
- Do not harvest grass for hay from treated areas within 7 days of application.

### **Tank Mix Combination – RUSH® 24 ALL IN + Milestone™ Herbicide**

RUSH® 24 ALL IN can be tank mixed with Milestone Herbicide to broaden the spectrum of weeds and invasive plants controlled. Use 1.6 – 3.1 L/ha RUSH® 24 ALL IN with 0.25 – 0.5 L/ha Milestone Herbicide. For mixing order see mixing instructions. When a tank mixture is used, follow all precautions, directions for use, and limitations on the tank-mix partner label.

### **Mixing Instructions**

1. Begin to fill sprayer tank with clean water, and engage agitator. **Agitation must be continued throughout the entire mixing and spraying procedure.**
2. When the sprayer is three quarters full of water, add Milestone Herbicide. If more than one container of Milestone Herbicide is to be used, add all Milestone Herbicide containers prior to adding any other tank-mix partners.
3. Add RUSH® 24 ALL IN next. Continue to fill tank to desired level with water.

### **Improved Pastures containing only forage grasses.**

RUSH® 24 ALL IN can be applied post emergence as a broadcast spray to control weeds in improved pastures that may eventually be rotated into annual cropland. Such pastures may contain non-native, tame or introduced forage grass species.

For permanent pastures / rangeland that will not be rotated with crops, please refer to the instructions listed in the above label section “Rangeland, permanent pasture, industrial and other non-crop areas of Canada”.

Do not spray improved pastures if the injury to existing legume species cannot be tolerated. RUSH® 24 ALL IN will injure or eliminate legume plants (e.g. alfalfa, clover species).

### **DIRECTIONS FOR USE**

Apply when weeds are in the 2-4 leaf stage and actively growing. Best results are obtained from applications made to seedling weeds. Only weeds emerged at the time of treatment will be controlled. Extreme growing conditions such as drought or near freezing temperature prior to, at, and following time of application may reduce weed control. Pastures in poor condition or under stress (e.g., over-grazed, nutrient deficient, etc.) could lead to reduced weed control as a result of limited competition from the pasture grasses. Foliage that is wet at the time of application may decrease control.

**Application rates:** RUSH® 24 ALL IN: 1.1 L/ha alone or in tank-mix with 140 g a.e./ha of 2,4-D ester herbicide (equivalent to 0.2 L/ha of 2,4-D LV 700).

**Weeds controlled:** Refer to the weeds controlled above with RUSH® 24 ALL IN at 1.1 L/ha alone or in tank-mix with 140 g a.e./ha of 2,4-D ester herbicide.

### **Restrictions:**

1. Do not permit lactating dairy animals to graze fields within 7 days after application.
2. Do not harvest forage or cut hay within 30 days after application.
3. Withdraw meat animals from treated fields at least 3 days before slaughter.

Refer to the main RUSH® 24 ALL IN label for additional details and instructions before using.

**READ THE ROTATIONAL CROPPING RESTRICTIONS ON THE FULL LABEL BEFORE USING THIS PRODUCT.**

### **RESISTANCE MANAGEMENT RECOMMENDATIONS**

For resistance management, RUSH® 24 ALL IN is a Group 4 herbicide. Any weed population may contain or develop plants naturally resistant to RUSH® 24 ALL IN and other Group 4 herbicides. The resistant biotypes may dominate the weed population if these herbicides are used repeatedly in the same field. Other resistance mechanisms that are not linked to site of action, but specific for individual chemicals, such as enhanced metabolism, may also exist. Appropriate resistance-management strategies should be followed.

To delay herbicide resistance:

- Where possible, rotate the use of RUSH® 24 ALL IN or other Group 4 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 ADAMA Agricultural Solutions Canada Ltd. At 1-855-264-6262 or at [www.adama.com/canada](http://www.adama.com/canada).

**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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