



# Attain\*

## Herbicide Tank-Mix

GROUP	4	HERBICIDE
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**FOR SALE FOR USE ONLY IN THE PRAIRIE PROVINCES AND PEACE RIVER REGION OF BRITISH COLUMBIA**

Attain\* Herbicide Tank-Mix provides postemergence control of a wide spectrum of broadleaved weeds including cleavers, kochia and wild buckwheat and suppression of chickweed and hemp-nettle in spring wheat, durum wheat, and spring barley.

AGRICULTURAL  
Emulsifiable concentrate

READ THE LABELS AND BOOKLET BEFORE USING  
KEEP OUT OF REACH OF CHILDREN

This co-package contains:

Attain A, Herbicide  
REGISTRATION NO. 24834 PEST CONTROL PRODUCTS ACT  
GUARANTEE: fluroxypyr, present as the 1-methylheptyl ester 180 g/L

Attain B, Herbicide  
REGISTRATION NO. 24833 PEST CONTROL PRODUCTS ACT  
GUARANTEE: 2,4-D, present as 2-ethylhexyl ester 564 g a.e./L

**DANGER**  **POISON**

**WARNING - EYE IRRITANT**  
**CAUTION - SKIN IRRITANT**

NET CONTENTS: Attain A, Herbicide 9.6 L  
Attain B, Herbicide 2 x 8.0 L

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\*Trademark of Dow AgroSciences LLC

## **PRECAUTIONS**

**DANGER - CAUSES SUBSTANTIAL BUT TEMPORARY EYE INJURY. DO NOT GET IN EYES.  
HARMFUL IF SWALLOWED, INHALED OR ABSORBED THROUGH THE SKIN  
CAUSES SKIN IRRITATION  
KEEP OUT OF REACH OF CHILDREN  
DO NOT APPLY BY AIR**

DO NOT get in eyes. Avoid contact with skin and clothing. Avoid breathing spray mist.

If this pest control product is to be used on a commodity that may be exported to the U.S. and you require information on acceptable residue levels in the U.S., visit CropLife Canada's web site at [www.croplife.ca](http://www.croplife.ca).

## **PROTECTIVE CLOTHING AND EQUIPMENT**

- When mixing/loading, or during clean-up and repair, wear coveralls over a long-sleeved shirt, long pants, protective eyewear (face shield or safety glasses), socks, shoes and chemical-resistant gloves. Rinse gloves before removal.
- When applying, wear coveralls over a long-sleeved shirt and long pants, socks, shoes and chemical-resistant gloves. Rinse gloves before removal.
- Gloves are not required during application when the applicator is in an enclosed tractor
- When handling more than 470 L of Attain B Herbicide per day workers must also use a closed system.

## **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 HAZARDS**

- This product contains a petroleum distillate which is moderately to highly toxic to aquatic organisms. Avoid contamination of aquatic systems during application. Do not contaminate these systems through direct application, disposal of waste or cleaning of equipment. Toxic to small mammals, birds, aquatic organisms and non-target terrestrial plants.
- Observe buffer zones specified under DIRECTIONS FOR USE.
- This product will harm other broadleaved plants in the vicinity of the treatment area.
- Do not spray exposed roots of trees and ornamentals.

## **LEACHING**

The use of this chemical may result in contamination of groundwater particularly in areas where soils are permeable (e.g. sandy soil) and/or the depth to the water table is shallow.

## **RUNOFF**

- To reduce runoff from treated areas into aquatic habitats avoid application to areas with 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 strip of untreated vegetation between the treated area and the edge of the water body.

## **STORAGE**

Store in original containers in a secure, dry heated storage. If product is frozen, bring to room temperature and agitate before use. Do not allow contamination of seeds, plants, fertilizers or other pesticides. Do not contaminate food, feedstuffs or domestic water supplies. If containers are damaged or spill occurs, use the product immediately or contain the spill with absorbent materials and dispose of waste.

## **DISPOSAL**

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

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

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

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.

## **PRODUCT INFORMATION**

Attain Herbicide Tank-Mix is a selective postemergence herbicide for the control of broadleaved weeds in spring wheat, durum wheat, and spring barley (not underseeded to legumes). Attain Herbicide Tank-Mix provides control of hard-to-kill annual broadleaved weeds such as cleavers and kochia (including populations resistant to Group 2 herbicides). Attain Herbicide Tank-Mix mix will also provide suppression of common chickweed. The components of Attain Herbicide Tank-Mix 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.

## **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 UNDERSEEDED WITH LEGUMES.

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

1. Do not use nozzles that produce a fine spray droplet.
2. Minimize drift by using sufficient spray volume to ensure coverage with large droplet size sprays.
3. Keep ground-driven spray booms as low as possible above the target surface.
4. Spray when wind is less than 8 km/hr.
5. 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.
- **DO NOT APPLY BY AIR.**
- DO NOT apply this product directly to freshwater habitats such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands, estuaries or marine habitats.
- DO NOT contaminate irrigation/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) coarse classification. Boom height must be 60 cm or less above the crop or ground.

### **Restricted Entry Interval (REI)**

All crops—12-hour REI

### **Sprayer Clean-up**

Sprayers used to apply Attain Herbicide Tank-Mix should not be used to apply other pesticides to sensitive crops without a thorough cleaning. Do not contaminate irrigation or drinking water when cleaning the sprayer. Spray equipment should be cleaned after use by the following procedure:

1. Drain the sprayer tank.
2. Hose down the interior surfaces of the tank. Flush tank, hoses, boom and nozzles with clean water for 10 minutes. Fill the tank with water and recirculate for 15 minutes. Spray part of the mixture through the hoses, boom and nozzles and drain the tank.
3. Remove the nozzles and screens and clean them separately.
4. If the spray equipment will be used on other crops other than cereal crops, repeat 1 and 2 again and thoroughly wash the spray mixture from the outside of the spray tank and the boom.

### **SENSITIVE PLANTS**

Do not apply Attain Herbicide Tank-Mix 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.

### **ROTATIONAL CROP RESTRICTIONS**

Fields previously treated with Attain Herbicide Tank-Mix 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**

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.
4. Do not harvest the treated mature crop within 60 days after application.

### **Tank Mixtures**

Do not apply this product with any other additive, pesticide or fertilizer except as specifically recommended on this label. When a tank mixture is used, consult the labels of the tank-mix partners and observe the largest (most restrictive) buffer zone of the products involved in the tank mixture.

### **DIRECTIONS FOR USE**

#### **Crops Registered:**

spring wheat  
durum wheat  
spring barley

#### **Timing of Application**

Apply postemergence when weeds are in the seedling stage (2-4 leaf), and actively growing, and when spring 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.

#### **Rates of Application**

**I. Low Rate:** To control the following weeds apply a uniform spray containing 0.45 L/ha Attain A and 0.75 L/ha Attain B in a minimum of 100 L of water per hectare to thoroughly cover the weeds. The contents of this carton will treat 21 hectares.

**Weeds Controlled:**

bluebur	hoary cress <sup>♦</sup>	stinkweed
burdock	kochia <sup>†</sup>	sunflower (annual)
canola (volunteer)	lamb's-quarters	vetch
cleavers (1-4 whorls)	mustards (except green, dog & tansy)	wild radish
clovers (sweet)	plantain	wild mustard
cocklebur	prickly lettuce	
flixweed	ragweed	
field horsetail <sup>♦</sup>	shepherd's-purse	
goat's-beard		

**II. High Rate:** To control the above weeds plus the following additional weeds apply a uniform spray containing 0.6 L/ha of Attain A and 1.0 L/ha of Attain B in a minimum of 100 L of water per hectare to thoroughly cover the weeds. The contents of this carton will treat 16 hectares.

**Additional Weeds Controlled:**

blue lettuce <sup>♦</sup>	hairy galinsoga	Russian thistle
dandelion <sup>˘</sup>	hedge bindweed	smartweed
docks	lady's-thumb	stork's-bill (1-8 leaf)
dog mustard	leafy spurge <sup>♦</sup>	tansy
field bindweed <sup>♦</sup>	oak-leaved goosefoot	tartary buckwheat
field peppergrass	redroot pigweed	volunteer flax (1-12 cm)
gumweed	round-leaved mallow (1-6 Leaf)	wild buckwheat (1-4 leaf)

**Weeds Suppressed:**

common chickweed <sup>†</sup> (up to 8 cm)	hemp-nettle (2-6 leaf stage)	sow-thistle (perennial) <sup>♦</sup>
Canada thistle <sup>♦</sup>	sow-thistle (annual)	

<sup>♦</sup> Top growth control only.

<sup>˘</sup> Spring rosettes.

<sup>†</sup> Including biotypes resistant to Group 2 herbicides that inhibit the ALS enzyme.

**NOTE:** Attain Herbicide Tank-Mix 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.

**Mixing Instructions**

1. Fill sprayer tank 1/2 full of water.
2. Start sprayer tank agitation.
3. Add the required number of jugs of Attain A.
4. Add the required number of jugs of Attain B.
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.

## Spray Application

Apply Attain Herbicide Tank-Mix in sufficient spray volume to provide uniform coverage using properly calibrated ground equipment. A total spray volume of 100 L/ha using low pressure (200 to 275 kPa) application is recommended. Maintain sufficient agitation in the spray tank during mixing and spraying to ensure a uniform spray mixture.

## TANK MIXES WITH ATTAIN HERBICIDE TANK-MIX FOR ANNUAL GRASS CONTROL

Tank mixtures of Attain Herbicide Tank-Mix with other herbicides will provide control of additional weeds. Read all precautions, minimal interval to harvest and directions for use on the Attain Herbicide Tank-Mix and tank-mix partner labels and follow the more stringent of the two.

### Tank-Mix Combinations with Attain Herbicide Tank-Mix

Herbicide Tank-Mix Partner	Crops Registered	Rate of Herbicide Tank-Mix Partner	Adjuvant Rate	Additional Weeds
Achieve <sup>1</sup> 40 DG <sup>†</sup>	spring wheat, durum wheat, spring barley	0.50 kg/ha	Turbocharge 0.5 L/100 L of spray volume (0.5% v/v)	green foxtail wild oats
Achieve 80 DG <sup>†</sup>		0.25 kg/ha		
Achieve Liquid <sup>†</sup>		0.5 L/ha		
Everest <sup>5</sup> Solupak <sup>6</sup> 70 DF	spring wheat, durum wheat	43 g/ha	Refer to Everest Solupak 70 DF label	green foxtail wild oats
Horizon <sup>2</sup> Herbicide Tank Mix	spring wheat, durum wheat	0.23 L/ha	Score 0.8 L/ha (0.8% v/v)	green foxtail wild oats <sup>††</sup>
Assert <sup>3</sup> 300 SC	spring wheat, durum wheat, spring barley	1.3 L/ha	Refer to Assert 300 SC label	wild oats (1-3 leaf)
		1.6 L/ha		wild oats (4 leaf)
Puma <sup>120</sup> Super	spring wheat, durum wheat	385 mL/ha	None required	green foxtail only
		770 mL/ha		green foxtail, wild oats & barnyardgrass

<sup>†</sup>Do not apply this tank-mix prior to the 4 leaf stage of the cereal crop as temporary crop injury could occur, particularly in spray overlaps. This tank-mix may cause temporary crop injury. However, yield will not normally be affected. This tank-mix may reduce control of wild oats compared to Achieve herbicides alone.

<sup>††</sup>Wild oat control may be reduced when tank mixed with Attain Herbicide Tank-Mix.

DO NOT APPLY BY AIR

**NOTE TO USER:** READ THE FOLLOWING BEFORE USING THIS PRODUCT FOR THE INDICATED SPECIAL USE APPLICATIONS: The DIRECTIONS FOR USE for this product for the use(s) described below were developed by persons other than Dow AgroSciences Canada Inc. and accepted for registration by Health Canada under the User Requested Minor Use Label Expansion program. Dow AgroSciences Canada Inc. itself makes no representation or warranty with respect to performance (efficacy) and/or crop tolerance (phytotoxicity) claims for this product when used on the crop(s) listed below.

Accordingly, the User assumes all risks related to performance and crop tolerance arising, and agree to hold Dow AgroSciences Canada Inc. harmless from any claims based on efficacy and/or phytotoxicity in connection with the use(s) described on this label.

### **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 100L water/ha. Do not harvest for forage or do not cut hay for forage.

**Application rates (Apply as a tank-mix only):** Attain A: 0.6 L/ha; Attain B: 1.0 L/ha

### **CONTROL OF LABELLED WEEDS IN SEEDLING AND ESTABLISHED FORAGE GRASSES GROWN FOR SEED IN THE PRAIRIE PROVINCES AND PEACE RIVER REGION OF BRITISH COLUMBIA ONLY:**

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 (Apply as a tank-mix only):** Attain A: 0.6 L/ha; Attain B: 1.0 L/ha.

- 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 Attain Herbicide Tank-Mix label for additional details and instructions, including preharvest intervals, before using.

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

### **BUFFER ZONES TO PROTECT SENSITIVE HABITATS**

A 15 metre buffer zone is 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.

For field sprayer application, buffer zones can be reduced with the use of drift reducing spray shields. When using a spray boom fitted with a full shield (shroud, curtain) that extends to the crop canopy, the labelled buffer zone can be reduced by 70%. When using a spray boom where individual nozzles are fitted with cone-shaped shields that are no more than 30 cm above the crop canopy, the labelled buffer zone can be reduced by 30%.

When a tank mixture is used, consult the labels of the tank-mix partners and observe the largest (most restrictive) buffer zone of the products involved in the tank mixture.

### **RESISTANCE MANAGEMENT RECOMMENDATIONS**

For resistance management, Attain Herbicide Tank-Mix is a Group 4 herbicide. Any weed population may contain or develop plants naturally resistant to Attain Herbicide Tank-Mix 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 Attain Herbicide Tank-Mix or other Group 4 herbicides with different herbicide groups that control the same weeds in a field.
- Use tank mixtures with herbicides from a different group when such use is permitted.
- Herbicide use should be based on an IPM program that includes scouting, historical information related to herbicide use and crop rotation, and considers tillage (or other mechanical), cultural, biological and other chemical control practices.
- Monitor treated weed populations for resistance development.
- Prevent movement of resistant weed seeds to other fields by cleaning harvesting and tillage equipment and planting clean seed.
- Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or integrated weed-management recommendations for specific crops and weed biotypes.
- For further information or to report suspected resistance, contact Dow AgroSciences Canada Inc. at 1-800-667-3852 or at [www.dowagro.ca](http://www.dowagro.ca).

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

\*Trademark of Dow AgroSciences LLC

<sup>1</sup>Achieve and <sup>2</sup>Horizon are trademarks of a Syngenta Group company

<sup>3</sup>Assert is a trademark of Nufarm

<sup>4</sup>Puma is a trademark of Bayer

<sup>5</sup>Everest is a trademark of Bayer Corp., used under license by Bayer

<sup>6</sup>Solupak is a trademark of Bayer.

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Label Code: CN-24834 24833-008-E

Replaces: CN-24834 24833-007-E

### **SPECIMEN LABEL NOTES:**

Attain A, Attain B and Attain Herbicide Tank-Mix:  
Text changes due to reevaluation of 2,4-D.

