

(Container)



# Tordon™ 202C

## Liquid Herbicide

GROUP	4	HERBICIDE
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- For the selective control of Wild buckwheat, Tartary buckwheat, Green smartweed, Russian thistle, Canada thistle (top growth), Perennial sow-thistle (top growth), Redroot pigweed, Lamb's quarters, Cocklebur, Wild mustard and spring seedlings of Stinkweed and Dandelions and other broadleaved weeds in wheat and barley in the Prairie Provinces, including the Peace River Area of B.C.
- For the control of alsike clover on timothy and brome grass being grown for seed production in the Prairie Provinces, including the Peace River Area of B.C.

COMMERCIAL

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

GUARANTEE: Picloram            12 g/L  
                  2,4-D                    200 g a.e./L  
                  (both present as triisopropanolamine salts)

REGISTRATION NO. 14167 PEST CONTROL PRODUCTS ACT

**WARNING**  **POISON**

EYE IRRITANT

NET CONTENTS: 8 L

**Corteva Agriscience Canada Company** 2450, 215 – 2nd Street SW  
Calgary, Alberta  
T2P 1M4  
1-800-667-3852

™Trademark of Corteva Agriscience and its affiliated companies.

## **PRECAUTIONS**

**KEEP OUT OF REACH OF CHILDREN  
MAY CAUSE SKIN AND EYE IRRITATION  
HARMFUL IF SWALLOWED  
MAY BE HARMFUL IF ABSORBED THROUGH SKIN  
DO NOT GET IN EYES  
AVOID CONTACT WITH EYES, SKIN AND CLOTHING  
AVOID BREATHING SPRAY MIST  
DO NOT INHALE FUMES  
DO NOT APPLY BY AIR**

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**

Do not apply this product in a way that this product will contact workers or other persons, either directly or through drift. Only handlers (mixers, loaders and applicators) wearing personal protective equipment may be in the area being treated during application. See DIRECTIONS FOR USE for crop specific REIs.

### **Closed mixing/loading systems are required.**

- When mixing/loading, wear coveralls over a long-sleeved shirt, long pants, chemical-resistant gloves, socks, shoes and protective eye wear (face shield or safety glasses). Rinse gloves before removal.
- When applying or during clean-up and repair, wear coveralls over a long sleeved shirt, long pants, chemical resistant gloves, socks and shoes. Rinse gloves before removal.
- Gloves are not required during application when the applicator is in an enclosed tractor

### **Application using Groundboom Equipment**

- Applicators must wear coveralls over a long-sleeved shirt and long pants. Chemical-resistant gloves must also be worn during clean-up and repair activities.
- When handling more than 850 L per day workers must also use a closed cab.

## **OPERATOR USE PRECAUTIONS**

- Wear freshly laundered clothing and clean protective equipment daily.
- Rinse gloves before removal.
- Wash hands 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 using soap and water.

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

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

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

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

### **TOXICOLOGICAL INFORMATION**

No specific antidote. Employ supportive care. Treatment should be based on judgement of the physician in response to reactions of the patient. 2,4-D may cause severe 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.

### **ENVIRONMENTAL HAZARDS**

- Picloram is persistent and will carryover. It is recommended that any products containing picloram not be used in areas treated with this product during the previous season.
- 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. If applying this product using a handheld sprayer, do not directly spray or allow the spray to drift onto ornamentals or gardens.
- 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.

### **AGRICULTURAL CHEMICAL**

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

### **STORAGE**

Store Tordon 202C Liquid Herbicide away from food, feedstuffs, fertilizer, seed, insecticides, fungicides, or any other pesticides and protect it from freezing. If freezing occurs, warm and mix thoroughly before using.

### **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.

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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. The user assumes the risk to persons or property that arises from any such use of this product.

(Booklet)



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- Gloves are not required during application when the applicator is in an enclosed tractor

### **Application using Groundboom Equipment**

- Applicators must wear coveralls over a long-sleeved shirt and long pants. Chemical-resistant gloves must also be worn during clean-up and repair activities.
- When handling more than 850 L per day workers must also use a closed cab.

## **OPERATOR USE PRECAUTIONS**

- Wear freshly laundered clothing and clean protective equipment daily.
- Rinse gloves before removal.
- Wash hands 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.
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### **ENVIRONMENTAL HAZARDS**

- Picloram is persistent and will carryover. It is recommended that any products containing picloram not be used in areas treated with this product during the previous season.
- 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. If applying this product using a handheld sprayer, do not directly spray or allow the spray to drift onto ornamentals or gardens.
- 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.

### **AGRICULTURAL CHEMICAL**

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

### **STORAGE**

Store Tordon 202C Liquid Herbicide away from food, feedstuffs, fertilizer, seed, insecticides, fungicides, or any other pesticides and protect it from freezing. If freezing occurs, warm and mix thoroughly before using.

## DISPOSAL

### Recyclable Containers:

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

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

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

### Returnable Containers:

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

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.

## DIRECTIONS FOR USE

### MIXING

**TRANSFER SYSTEM: Containers larger than 20 Litres:** Use a transfer system that avoids open pouring when transferring the liquid concentrate from such containers into the spray tank.

## GENERAL INFORMATION

For Spring Wheat and Barley not underseeded with a legume in the Prairie Provinces, including the Peace River Area of British Columbia: Tordon 202C Liquid Herbicide should be diluted with water and applied by ground sprayer at the 3 to 5-leaf stage of wheat and barley. Treatment beyond this stage may result in crop damage, especially to wheat. The more advanced the crop is and the more adverse the growing conditions, the more likely damage is to occur.

### Tordon 202C Liquid Herbicide controls many broadleaf weeds including:

Wild buckwheat	<i>Polygonum convolvulus</i>
Tartary buckwheat	<i>Fagopyrum tataricum</i>
Canada thistle (top growth)	<i>Cirsium arvense</i>
Perennial sow-thistle (top growth)	<i>Sonchus arvensis</i>
Green smartweed	<i>Polygonum scabrum</i>
Wild mustard	<i>Brassica kaber</i>
Lamb's quarters	<i>Chenopodium album</i>
Russian thistle (2-4 leaf)	<i>Salsola kali</i>
Cocklebur	<i>Xanthium strumarium</i>
Redroot pigweed	<i>Amaranthus retroflexus</i>
Stinkweed (spring seedings)	<i>Thlaspi arvense</i>
Dandelions (spring seedings)	<i>Taraxacum officinale</i>

Apply 100 to 200 L/ha (10-20 gal/acre) of spray solution at pressures of 200-275 kPa (30-40 PSI) for uniform coverage. Use ground spray equipment only. Treat when weeds are young and growing actively. Maximum 1 application per year.

**NOTE:** The weeds may not die immediately after treatment. The weeds will slow and cease growth, therefore not competing with the crop growth nor interfering with harvest.



### **Rate of Application**

Apply Tordon 202C Liquid Herbicide for weed control in wheat and barley crops at a rate of 2.0 L/ha.

For best results treat:

- (a) when weed seedlings are in the 2 to 4 leaf stage and
- (b) when weeds are actively growing. If weeds are larger or not actively growing, control may be reduced.

For the control of alsike clover in timothy and brome grass being grown for seed production in the Prairie Provinces, including the Peace River area of B.C.: Apply Tordon 202C Liquid Herbicide at the rate of 2.0 L/ha in 100-200 L/ha total spray solution. Do not apply more than once per growing season. Application of Tordon 202C Liquid Herbicide should be made prior to the shot-blade stage of the crop. Applications of Tordon 202C Liquid Herbicide should not be made after August 1 in the year of seeding. Treatments made after this date may result in significant seed yield reductions in the year following treatment.

### **GENERAL USE PRECAUTIONS**

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

#### **Pre-Harvest Intervals**

- Do not permit lactating dairy animals to graze fields within 14 days after application.
- Do not harvest forage or cut hay within 30 days after application.
- Withdraw meat animals from treated fields at least 14 days before slaughter.
  
- Do not apply more than once per year.
- DO NOT apply this product directly to freshwater habitats such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs, ditches and wetlands, estuaries or marine habitats.
- DO NOT contaminate irrigation/drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

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

- For agricultural uses: Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.
- Grass grown for seed—2-day REI

#### **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.

#### **Spray Preparation**

To prepare the spray mix only with water, add about half the desired amount of water in the spray tank, then with agitation, all the recommended amount of Tordon 202C Liquid Herbicide. Finally, with continued agitation, add the rest of the water.

### **CROP ROTATION**

Fields previously treated with Tordon 202C Liquid Herbicide may be seeded to rapeseed, (including canola) mustard, flax, wheat, oats, barley or may be summerfallowed. These crops are tolerant to residues of picloram remaining in the soil.

### **SPECIALTY/OTHER CROPS -- RESTRICTIONS**

Certain desirable broadleaf crops can be damaged by small amounts of picloram, one of the active ingredients in Tordon 202C Liquid Herbicide, remaining in the soil. The rate of decomposition of picloram varies with soil organic matter, soil moisture, pH and texture, therefore fields previously treated with Tordon 202C Liquid Herbicide should not be planted to:

- alfalfa and sunflowers until at least the third growing season after the year of treatment;
- beans, lentils, peas, or potatoes until at least the fifth growing season after the year of treatment.

(See Application Precautions and Soil below.)

Growers of any specialty crops should consult a Corteva Agriscience Canada agricultural representative (phone 1-800-667-3852) to obtain updated information concerning seeding specialty crops and to determine the sensitivity of crops not listed above.

### **APPLICATION PRECAUTIONS**

Small amounts of picloram and 2,4-D can damage certain desirable broadleaf plants including but not limited to alfalfa, beans, beets, lentils, peas, potatoes, sugarbeets, sunflowers, tomatoes, other field or vegetable crops, flowers, fruit plants, ornamental and shade trees, if applied to them during either the growing or dormant period. Avoid application in the vicinity of sensitive crops and do not allow spray to drift and contact desirable plants. Use a low pressure (200-275 kPa) and a coarse spray to minimize spray drift. Avoid overdosing and overlapping spray swaths as injury to crops may result. Do not treat wheat or barley crops underseeded to a legume.

**Avoid contamination** of non-target land, surface and sub-surface water or irrigation ditches. Do not use Tordon 202C Liquid Herbicide in the following areas: standing or flowing water, the inner banks or bottoms of irrigation ditches, in areas where surface water can run off to adjacent croplands either planted in or to be planted to sensitive crops, where the product can leach into ground water or where it can contact desirable plants.

### **MIXING**

Tordon 202C Liquid Herbicide should not be mixed in the sprayer with other weed killers or any other pesticide.

### **EQUIPMENT CLEAN-UP**

Spray equipment used to apply Tordon 202C Liquid Herbicide should not be used to apply other pesticides to crops susceptible to Tordon 202C Liquid Herbicide. If it is necessary to do so, contact your Corteva Agriscience Canada Farm Herbicide Dealer for detailed equipment clean-up procedures. (See Use Precautions on specialty/other crops -- restrictions).

### **GRAZING AND MANURE**

Straw from fields treated with Tordon 202C Liquid Herbicide can be fed to livestock. Picloram residues that may exist in the straw will pass through the animal unchanged. If the straw is used for bedding or animal feed, return the manure to fields to be planted to grain crops, flax, or rapeseed and do not plant to sensitive crops until the time periods mentioned in **SPECIALTY/OTHER CROPS -- RESTRICTIONS** have passed. Do not permit meat animals being finished for slaughter nor dairy animals to forage or graze treated fields within two weeks of treatment. Do not use straw from treated crops for composting or mulching on susceptible broadleaf crops.

## SOIL

Soil treated with Tordon 202C Liquid Herbicide should not be moved to other areas nor should it be used to grow susceptible broadleaf plants unless an adequately sensitive bioassay test shows that no picloram is present. For details of the bioassay contact Corteva Agriscience Canada Company at 1-800-667-3852.

## BUFFER ZONES TO PROTECT SENSITIVE HABITATS

Seasonal water bodies require buffer zones if there is water in them during application. Water bodies which do not fill on an annual basis need not be buffered.

The 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	Buffer Zone (metres) Required for the Protection of:	
		Aquatic Habitats	Terrestrial Habitats
Field sprayer*	Wheat and barley, timothy and brome grass (grown for seed production only)	1	5

\*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%.

## RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, Tordon 202C Liquid Herbicide is a Group 4 herbicide. Any weed population may contain or develop plants naturally resistant to Tordon 202C Liquid Herbicide 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 Tordon 202C Liquid Herbicide 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 Corteva Agriscience Canada Company at 1-800-667-3852 or at [www.corteva.ca](http://www.corteva.ca).

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