

(Container)



# Goal\* 2XL

## Emulsifiable Concentrate Herbicide

GROUP	14	HERBICIDE
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**RESTRICTED**

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

GUARANTEE: OXYFLUORFEN 240 GRAMS PER LITRE

REGISTRATION NO. 24913 PEST CONTROL PRODUCTS ACT

**DANGER**  **POISON**

**DANGER SKIN IRRITANT**  
**DANGER EYE IRRITANT**  
**POTENTIAL SKIN SENSITIZER**

NET CONTENTS: 10 L

**Dow AgroSciences Canada Inc.**  
Suite 2100, 450 - 1 Street S.W.  
Calgary, Alberta  
T2P 5H1  
1-800-667-3852

\*Trademark of Dow AgroSciences LLC

**PRECAUTIONS****KEEP OUT OF REACH OF CHILDREN****DO NOT APPLY BY AIR**

This material causes eye injury and skin irritation.

- Wear goggles or a face shield, chemical-resistant gloves, coveralls over a long sleeved shirt and long pants, chemical-resistant footwear such as rubber boots, and a chemical-resistant apron during mixing, loading, cleanup and repair activities. Applicators must wear chemical-resistant gloves, coveralls over a long-sleeved shirt and long pants, and chemical-resistant footwear such as rubber boots.
- Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours for conifers, 24 hours for raspberries or strawberries, and 48 hours for onions.
- Remove personal protective equipment immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash hands (or any other skin that came into contact with the product) with soap and water and change into clean clothing.
- Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.
- Remove clothing/personal protective equipment immediately if pesticide comes in contact with skin through soaked clothing or spills. Then wash skin thoroughly and put on clean clothing. Wash contaminated clothing before reuse.
- Wash hands and exposed skin with soap and water thoroughly before eating, drinking, smoking or using toilet. Avoid breathing vapour or spray mist or contact with clothings.
- 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).

**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 judgment of the physician in response to reactions of the patient. Probable mucosal damage may contraindicate the use of gastric lavage. This product may pose an aspiration pneumonia hazard. Contains petroleum distillates.

**AGRICULTURAL CHEMICAL**

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

**ENVIRONMENTAL HAZARDS**

Toxic to aquatic organisms and terrestrial plants. Observe buffer zones specified under DIRECTIONS FOR USE.

DO NOT apply beyond the field boundary.

DO NOT apply directly to aquatic habitats (such as lakes, rivers, sloughs, ponds, coulees, prairie potholes, creeks, marshes, streams, reservoirs, and wetlands) or estuarine/marine habitats. 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 equipment.

**STORAGE**

Do not contaminate water, food, or feed by storage or disposal. Keep from freezing. Store above 0° C.

**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.

**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)



# Goal\* 2XL

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KEEP OUT OF REACH OF CHILDREN

GUARANTEE: OXYFLUORFEN 240 GRAMS PER LITRE

REGISTRATION NO. 24913 PEST CONTROL PRODUCTS ACT

**DANGER**  **POISON**

**DANGER SKIN IRRITANT**  
**DANGER EYE IRRITANT**  
**POTENTIAL SKIN SENSITIZER**

NET CONTENTS: 9.46 L, 10 L, 110 L, bulk

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Calgary, Alberta  
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**NATURE OF RESTRICTION:** Exposure to this product may be hazardous to your health. Care must be taken when handling to minimize exposure. Follow all label directions and precautions carefully. Only to be used by persons with government approval, where required, for application of pest control products.

## RESTRICTED USES

### GENERAL INFORMATION

Goal 2XL Emulsifiable Concentrate Herbicide is a selective herbicide for the control of certain broad-leaf weeds.

### GENERAL USE PRECAUTIONS

- DO NOT APPLY BY AIR.
- DO NOT APPLY TO SANDY SOIL

### DIRECTIONS FOR USE

READ ALL DIRECTIONS CAREFULLY BEFORE APPLYING. FAILURE TO FOLLOW LABEL INSTRUCTIONS MAY RESULT IN ERRATIC WEED CONTROL OR CROP DAMAGE.

#### Field Sprayer Application

DO NOT apply during periods of dead calm or when winds are gusty. DO NOT apply with spray droplets smaller than the American society of Agricultural and Biological Engineers (ASABE) coarse classification. DO NOT overspray non-target terrestrial or aquatic habitats. DO NOT contaminate aquatic habitats when cleaning and rinsing spray equipment or containers.

#### Buffer Zones

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, rangelands, 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 Zones (metres) Required for the Protection of			
		Aquatic Habitat of Depths			Terrestrial Habitat
		< 1 m	1-3 m	> 3 m	
field sprayer <sup>†</sup>	dry bulb onion	20	5	3	15
	raspberry (British Columbia only) <sup>††</sup>	1	1	1	1

<sup>†</sup>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 or ground, 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 or ground, the labelled buffer zone can be reduced by 30%.

<sup>††</sup>Application to raspberry crops is restricted to windspeeds of 8 km/h or less.

**ONIONS (DRY BULB ONLY)****Application Directions**

For best results, apply Goal 2XL when weeds are small and growing conditions are favourable for vigorous growth. Apply 500 milliliters of Goal 2XL in a minimum of 500 litres of water per hectare after there are two true leaves on the onions. Repeat applications as required to control late germinating weeds. Do not apply in excess of 2.0 litres per hectare in one year.

**Weeds Controlled**

Common Purslane, Redroot Pigweed, Cupped Nightshade (Potatoweed), Wild Buckwheat, Lamb's-quarters, Oak-leaved Goosefoot, and Maple-leaved Goosefoot.

**Mixing Instructions**

Maintain sufficient agitation during mixing and spraying to ensure a uniform spray mixture. Goal 2XL should be applied only by ground equipment delivering a minimum of 500 litres of spray mixture per hectare using a pressure of 275 kPa. Do not add oils or surfactants to the spray mixture. Avoid drift onto susceptible crops.

**Application Timing**

To ensure effective weed control, apply Goal 2XL when the weeds are in the 2 to 4 leaf stage and actively growing. The first application can be made when the onions have two fully developed true leaves. More than one application may be necessary to control late germinating weeds. Do not apply Goal 2XL when the crop or weeds are under stress such as from excess or lack of moisture, extreme temperatures, or injury from previously applied herbicides. Do not apply within 56 days of harvest.

**Crop Tolerance**

Goal 2XL can cause necrotic lesions, twisting, or pigtailling of the onion crop. This injury will be more severe if applications are made during periods of stress and/or if applications are made prior to the full development of two true leaves on the crop. Use only on dry bulb onions.

**FOR PRIMOCANE SUPPRESSION ON RED RASPBERRIES (BRITISH COLUMBIA ONLY)****Application Directions**

Apply Goal 2XL at a rate of 1.0 - 2.0 litres per ha to primocanes which have emerged to 10 to 15 centimetres. The higher rate should be used if the majority of primocanes have reached the maximum height of 15 centimetres or when hot, dry conditions precede the application. Apply only once per season. The addition of 2.5 litres of Companion (or equivalent surfactant) per 1000 litres of spray solution is recommended.

†Dosages listed are for broadcast or overall application. For banded applications (one metre wide), the amount of Goal 2XL required per hectare should be reduced according to the following formula:

$$\frac{\text{Band Width}}{\text{Row Width}} \times \text{Broadcast Rate} = \text{Amount Required per Hectare}$$

†for a one metre banded application

Goal 2XL should be applied to the primocane row in a minimum of 500 litres of water per hectare. Restrict the spray application to the lower 15 cm of the fruiting canes to minimize crop injury from spray contact. Goal 2XL must be applied using a low pressure mounted spray system (200 to 400 kPa). Follow manufacturers recommendations for maintaining the minimum allowable boom height. The use of drift-reducing shrouds or spray shields is recommended. Spray equipment should be calibrated carefully before each use.

**DO NOT** apply Goal 2XL to raspberry crops when windspeeds exceed 8 km/h.

Goal 2XL provides temporary suppression of early season red raspberry primocane growth. Occasionally, after the use of Goal 2XL, a spotting, crinkling or flecking may appear on the leaves of fruiting canes. These symptoms do not affect red raspberry plant health, performance or yield. Leaves of the fruiting canes which receive direct or indirect (drift) spray contact will be injured. Do not use Goal 2XL on red raspberry plantings which are weak, or under stress due to temperature, disease, fertilizer, insects, pesticides, drought or excessive moisture as primocane growth may be insufficient for the following year's crop.

Do not apply Goal 2XL within 50 days of harvest.

## PRECAUTIONS

### KEEP OUT OF REACH OF CHILDREN

### DO NOT APPLY BY AIR

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- Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours for conifers, 24 hours for raspberries or strawberries, and 48 hours for onions.
- Remove personal protective equipment immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash hands (or any other skin that came into contact with the product) with soap and water and change into clean clothing.
- Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.
- Remove clothing/personal protective equipment immediately if pesticide comes in contact with skin through soaked clothing or spills. Then wash skin thoroughly and put on clean clothing. Wash contaminated clothing before reuse.
- Wash hands and exposed skin with soap and water thoroughly before eating, drinking, smoking or using toilet. Avoid breathing vapour or spray mist or contact with clothings.
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## FIRST AID

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**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 judgment of the physician in response to reactions of the patient. Probable mucosal damage may contraindicate the use of gastric lavage. This product may pose an aspiration pneumonia hazard. Contains petroleum distillates.

**AGRICULTURAL CHEMICAL**

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

**ENVIRONMENTAL HAZARDS**

Toxic to aquatic organisms and terrestrial plants. Observe buffer zones specified under DIRECTIONS FOR USE.

DO NOT apply beyond the field boundary.

DO NOT apply directly to aquatic habitats (such as lakes, rivers, sloughs, ponds, coulees, prairie potholes, creeks, marshes, streams, reservoirs, and wetlands) or estuarine/marine habitats. 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 equipment.

**STORAGE**

Do not contaminate water, food, or feed by storage or disposal. Keep from freezing. Store above 0° C.

**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.

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.

**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 Buyer and User assumes all risks related to performance and crop tolerance arising, and agrees 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 – STRAWBERRIES**

For the control of labelled weeds plus field pansy and wood sorrell. Apply Goal 2XL Emulsifiable Concentrate Herbicide at a rate of 1.0 litre per hectare in 500 L of spray solution/ha. Apply as a single spray pre-mulching to dormant plants. Apply only one ground application per year. The preharvest interval is 150 days.

**DIRECTIONS FOR USE – ESTABLISHED CONIFERS FOR FIELD PRODUCTION**

Goal 2XL Emulsifiable Concentrate Herbicide will provide both postemergence and residual preemergence weed control. To ensure effective postemergence weed control, apply Goal 2XL when weeds are in the 2- to 4-leaf stage and actively growing.

Goal 2XL should be thoroughly mixed with clean water at the recommended concentration and applied at 275 kPa in 200 to 500 litres of water per hectare. Rain or 20 to 40 millimetres of water by sprinkler irrigation after application but prior to weed emergence will improve herbicide incorporation. Heavy rainfall or heavy irrigation immediately following application to emerged weeds may reduce effectiveness.

Goal 2XL has been tested on balsam fir, Fraser fir, white pine and white spruce. Goal 2XL may be applied to other non-listed conifer species, however, non-listed conifer species may vary in tolerance to herbicides including Goal 2XL. First use of Goal 2XL to any non-listed conifer species should be limited to a small area of each variety to confirm tolerance prior to adoption as a general field practice.

Do not use handheld equipment to apply Goal 2XL to field grown conifers.

**Balsam Fir, Fraser Fir, White Spruce, and White Pine**

For control of labeled weeds on field grown conifers including balsam fir, fraser fir, white spruce and white pine, apply Goal 2XL at the rate of 2 litres of product per hectare pre-emergence to the weeds. Apply in 200-500 litres of water per hectare. Goal 2XL applications should be made before bud break or after new foliar has hardened off (approximately six weeks after bud break). Some temporary needle burn may occur. Apply to healthy trees that are not under stress.

**BUFFER ZONES**

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, rangelands, 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 Zones (metres) Required for the Protection of			
		Aquatic Habitat of Depths			Terrestrial Habitat
		< 1 m	1-3 m	> 3 m	
field sprayer <sup>†</sup>	strawberry	10	4	2	7
	conifers	20	5	3	15

<sup>†</sup>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 or ground, 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 or ground, the labelled buffer zone can be reduced by 30%.

Refer to the main Goal 2XL label for additional details and instructions, including preharvest intervals and rotational cropping restrictions before using.

**RESISTANCE MANAGEMENT RECOMMENDATIONS**

For resistance management, Goal 2XL is a Group 14 herbicide. Any weed population may contain or develop plants naturally resistant to Goal 2XL and other Group 14 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 Goal 2XL or other Group 14 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).

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